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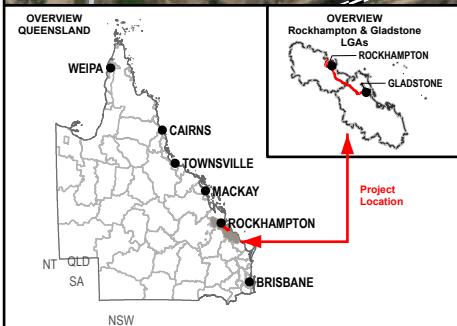
- SGIC SDA Pipeline Alignment
- Study Area
- Waterways
- Main Roads
- Railways

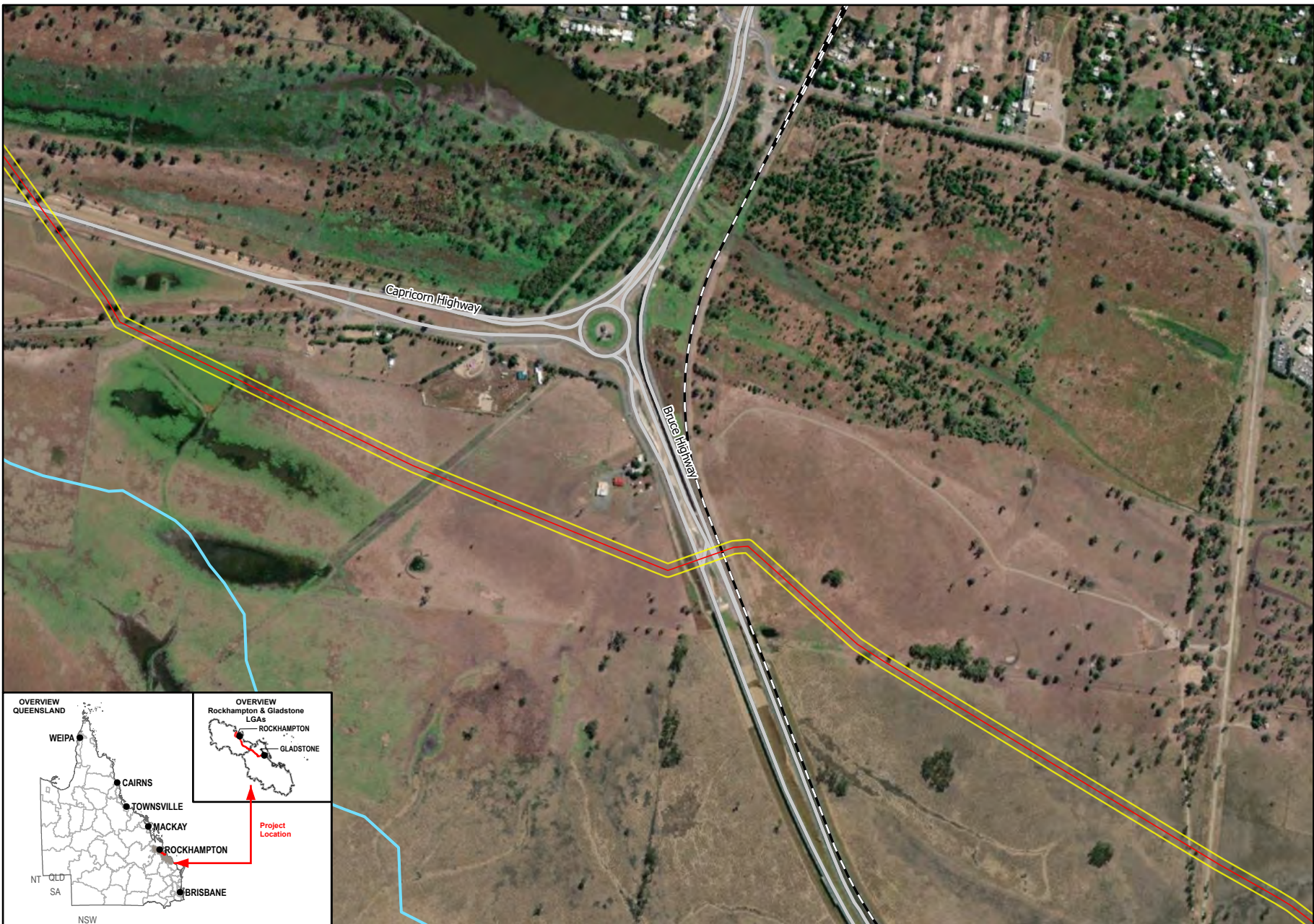
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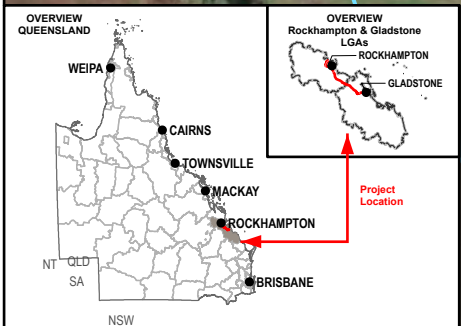




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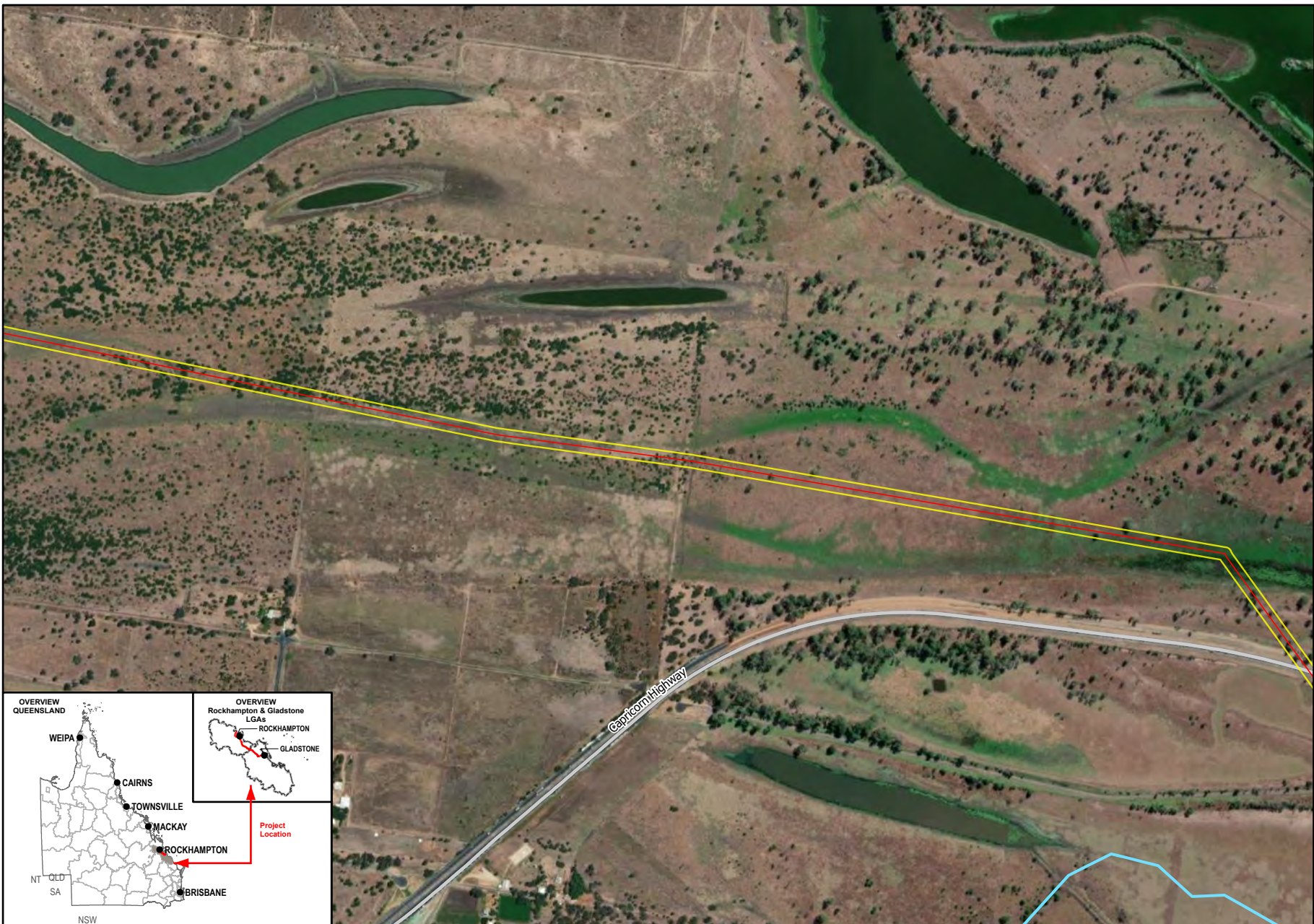
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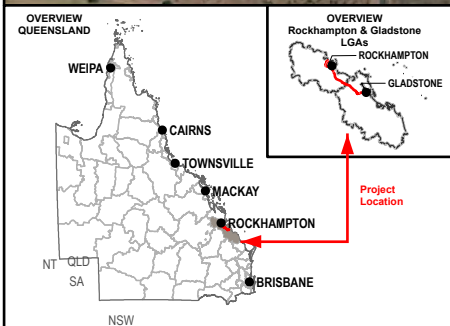


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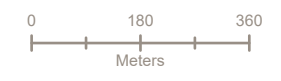
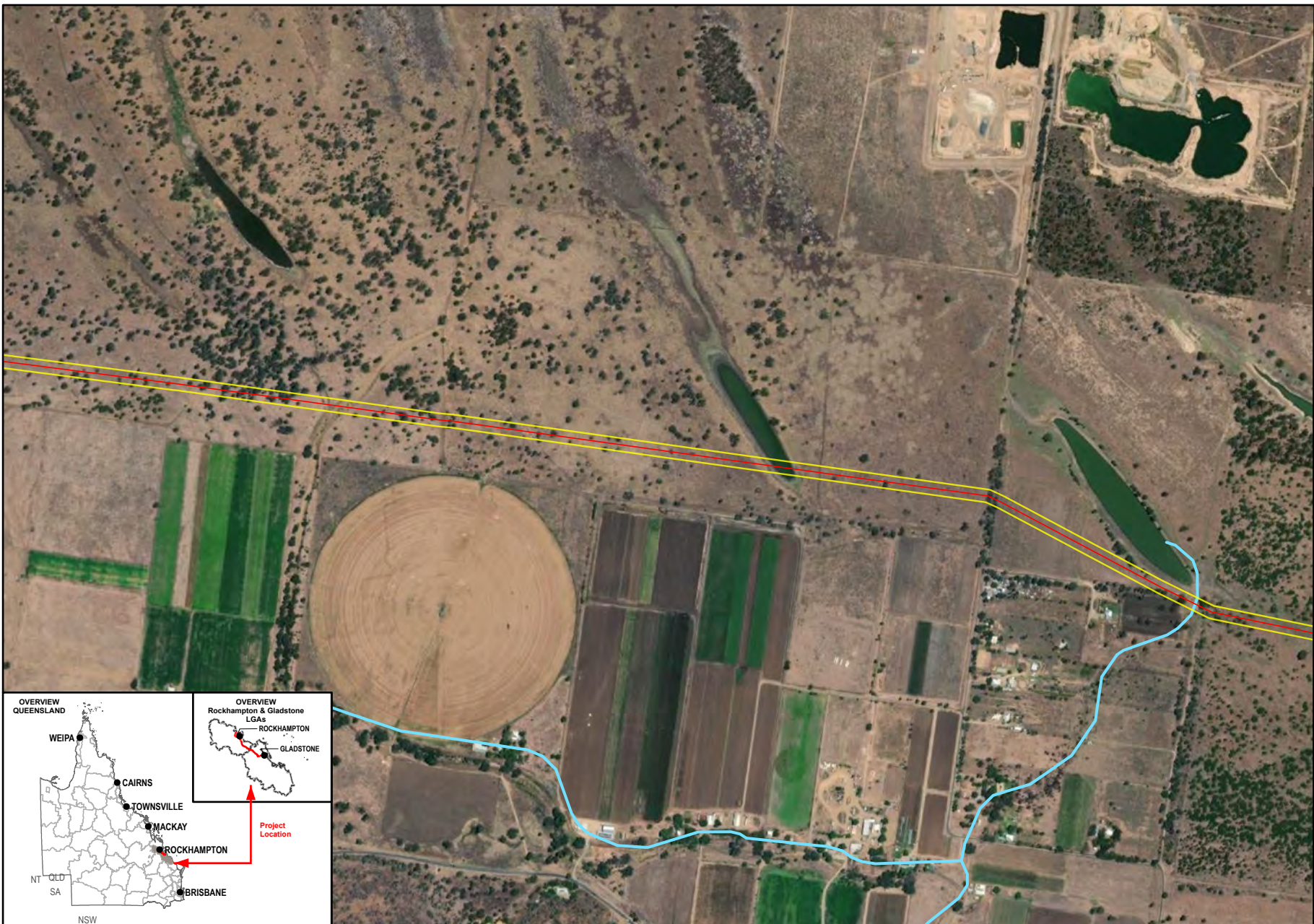


- Legend**
- SGIC SDA Pipeline Alignment
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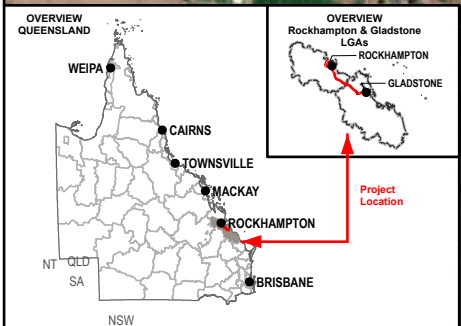
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7.2.3 Significant Residual Impact on MSES values

To identify and quantify any significant impact on connectivity within the SGIC SDA pipeline alignment, the Landscape Fragmentation Tool (LFC) was used. The LFC tool performs a desktop assessment of proposed impacts on connectivity areas containing remnant vegetation and determines whether the prescribed activity will be significant with respect to the Queensland Environmental Offset Framework.

The following MSES values in this Section listed in the Significant Residual Impact Guideline 2014 (DEHP 2014b) have been identified as having the potential to be impacted by the project. Note that potential impacts on MSES conservation significant species and their habitat have already been assessed above in Section 7.2.1. A summary of the significant residual impact assessments is provided in Table 7-35.

Table 7-35 Summary of the SGIC SDA residual impact assessments

Value	Is the residual impact significant?
Regulated vegetation	Likely
Connectivity areas	Unlikely
Wetlands and watercourses	Unlikely
Waterway providing for fish passage	Unlikely

7.2.3.1 Regulated vegetation

The project is likely to have a significant impact on regulated vegetation within the SGIC SDA pipeline alignment. A significant residual impact assessment is provided in Table 7-36.

Table 7-36 Significant residual impact assessment – regulated vegetation

Clearing in a regional ecosystem that is: endangered, or of concern	Clearing in the portion of a regional ecosystem that lies within a mapped wetland	Clearing in a regional ecosystem that is within the defined distance of a watercourse
Significant residual impact criteria		
For clearing for linear infrastructure: <ul style="list-style-type: none"> Greater than 25 m wide in a grassland (structural category) regional ecosystem; or Greater than 20 m wide in a sparse (structural category) regional ecosystem; or Greater than 10 m wide in a dense to mid-dense (structural category) regional ecosystem. 	For clearing for linear infrastructure: <ul style="list-style-type: none"> Greater than 25 m wide in a grassland (structural category) regional ecosystem; or Greater than 20 m wide in a sparse (structural category) regional ecosystem; or Greater than 10 m wide in a dense to mid-dense (structural category) regional ecosystem. 	For clearing for linear infrastructure: <ul style="list-style-type: none"> Greater than 25 m wide in a grassland (structural category) regional ecosystem; or Greater than 20 m wide in a sparse (structural category) regional ecosystem; or Greater than 10 m wide in a dense to mid-dense (structural category) regional ecosystem.
	Clearing within 50 m of the defining bank.	Clearing within 5 m of the defining bank.
Assessment		
Significant <ul style="list-style-type: none"> Clearing greater than 10 m wide in a dense (structural category) endangered regional ecosystem and greater than 20 m wide in a sparse (structural category) of concern regional ecosystem is proposed to occur. Disturbance within 10 m to 30 m will be rehabilitated, leaving 10 m permanently cleared. 	Significant <ul style="list-style-type: none"> Clearing greater than 20 m wide in a sparse (structural category) regional ecosystem that lies within a mapped wetland is proposed to occur. Clearing within 50 m of the defining bank will also occur. Disturbance within 10 m to 30 m will be rehabilitated, leaving 10 m permanently cleared. 	Significant <ul style="list-style-type: none"> Clearing greater than 10 m wide in a dense (structural category) regional ecosystem and greater than 20 m wide in a sparse (structural category) regional ecosystem that are within the defined distance of a watercourse is proposed to occur. Clearing within 5 m of the defining bank will also occur. Disturbance within 10 m to 30 m will be rehabilitated, leaving 10 m permanently cleared. The disturbance within 5 m of a bank will be rehabilitated after construction as the

Clearing in a regional ecosystem that is: endangered, or of concern	Clearing in the portion of a regional ecosystem that lies within a mapped wetland	Clearing in a regional ecosystem that is within the defined distance of a watercourse
		pipeline is proposed to be buried under watercourses and associated bank vegetation.

7.2.3.2 Connectivity areas

The following significant residual impact criteria for the significant residual impact test for connectivity as listed in the *Significant Residual Impact Guideline 2014* (DEHP 2014b), have been assessed and the project is unlikely to have a significant impact on connectivity within the SGIC SDA pipeline alignment. A significant residual impact assessment of connectivity is provided in Table 7-37.

Table 7-37 Significant residual impact assessment – connectivity

Significant residual impact criteria	Assessment
Change in core remnant ecosystem extent at the local scale	Unlikely
Loss or fragmentation of core remnant ecosystem at the site scale	Unlikely

7.2.3.3 Wetlands and watercourses

The following significant residual impact criteria for wetlands and watercourses as listed in the *Significant Residual Impact Guideline 2014* (DEHP 2014b), have been assessed and the project is unlikely to have a significant impact on wetlands within the SGIC SDA pipeline alignment. A significant residual impact assessment is provided in Table 7-38.

Table 7-38 Significant residual impact assessment – wetlands and watercourses

Significant residual impact criteria	Assessment
Areas of the wetland or watercourse being destroyed or artificially modified;	<p>Unlikely</p> <p>The SGIC SDA pipeline alignment has been located to avoid and reduce impacts to HES wetlands. The pipeline will intersect with three HES listed wetlands, two are located south-west of Rockhampton either side of Fogarty Road, and the other is located at site 27.</p> <p>The two wetlands located south-west of Rockhampton are likely to contain water throughout the year. Construction will consist of various trenchless methods to minimise impacts to the habitat and water quality.</p> <p>Where works occur in ephemeral habitats, additional controls for the protection of habitat and flow will be implemented. These measures will include scheduling works during the dry season to avoid increased mobilisation or erosion and sedimentation and avoid key fish migration and spawning periods. Works in wetted waterways will be undertaken in accordance with the DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018), and any approval conditions, to avoid impacts to flow and fauna movement within the wetland.</p> <p>Site 27 is an ephemeral wetland system and trenching is expected to occur at this site. There will be a temporary modification to the dry bed during construction to clear vegetation within the pipeline trenching footprint which will cause a temporary disturbance. A 10 m corridor for the SGIC SDA pipeline alignment will be cleared within the wetland and a further 10 – 30 m will be cleared during construction. Cleared sections will be rehabilitated back to the natural state with no residual impact. Design and implementation of a CEMP will further minimise risk to aquatic fauna and achieve protection of habitat.</p> <p>There are also nine major, four high-risk, three tidal and numerous moderate and low waterways that intersect with the SGIC SDA pipeline alignment. Construction will primarily occur within dry ephemeral waterways in which there will be a temporary modification of the dry creek bed and banks during construction to clear vegetation within the pipeline trenching footprint which will cause a temporary disturbance. It is expected that after construction, the watercourse beds and banks within the footprint will be rehabilitated back to their natural state with no residual impact.</p>

Significant residual impact criteria	Assessment
	<p>There are several permanent waterways that contain habitat values for threatened species including sites 2 and 4. It is expected that a pipe bridge will occur at site 2, while HDD will occur at site 4 and therefore no direct impacts to these waterways will occur. The other major and high-risk waterways within the SGIC SDA pipeline alignment will involve various trenchless construction techniques that will also have no direct impacts to waterways.</p>
<p>A measurable change in water quality of the wetland or watercourse—for example a change in the level of the physical and/or chemical characteristics of the water, including salinity, pollutants, or nutrients in the wetland or watercourse, to a level that exceeds the water quality guidelines for the waters; or</p>	<p>Unlikely</p> <p>The SGIC SDA pipeline alignment has been positioned to avoid impacts to wetlands and water courses where possible. There are three HES wetlands that intersect the SGIC SDA pipeline alignment. The water quality of the HES wetland watercourses at site 27 is unlikely to undergo a measurable change due to its ephemeral nature. Construction in this area will occur during the dry season when there is no water present and returned to its natural state. For mapped wetlands and waterways that contain water at the time of construction, methods will consist of various trenchless construction methods to minimise impacts to the habitat and water quality. A CEMP, including erosion and sediment control will be implemented to minimise impacts to water quality during construction. Within ephemeral watercourses, the pipeline will be constructed via trenching during the dry season. There will be a temporary modification of the dry creek bed and banks during construction to clear vegetation within the pipeline trenching footprint which will cause a temporary disturbance. However, it is expected that after construction, the watercourse beds and banks within the footprint will be rehabilitated back to their natural state with no residual impact.</p>
<p>The habitat or lifecycle of native species, including invertebrate fauna and fish species, dependent upon the wetland being seriously affected; or</p>	<p>Unlikely</p> <p>The habitats or lifecycles of native species that are dependent on the waterway are unlikely to be seriously affected by the project. The SGIC SDA pipeline alignment has been positioned to avoid impacts to HES wetlands and high ecological waterways where possible. Within ephemeral watercourses and the ephemeral HES wetland at site 27, construction will occur during the dry season and the pipelines will be constructed via trenching. There will be a temporary modification of the dry bed and banks during construction to clear vegetation within the pipeline trenching footprint which will cause a temporary disturbance. However, it is expected that after construction, the watercourse beds and banks within the footprint will be rehabilitated back to their natural state with no residual impact.</p> <p>For the two HES wetlands located south-west of Rockhampton and any other wetland or watercourse containing water at the time of construction, various trenchless construction techniques will be used including HDD, pipe bridges and microtunnels and therefore no impact will occur to habitat or species.</p>
<p>A substantial and measurable change in the hydrological regime or recharge zones of the wetland, e.g. a substantial change to the volume, timing, duration and frequency of ground and surface water flows to and within the wetland; or</p>	<p>Unlikely</p> <p>No substantial or measurable change in the hydrological regime or recharge zones of the wetland is expected to occur. The SGIC SDA pipeline alignment has been positioned to avoid impacts to HES wetlands and high ecological waterways where possible.</p> <p>Within ephemeral watercourses and the ephemeral HES wetlands construction will occur during the dry season and the pipelines will be constructed via trenching. Various trenchless construction techniques will be used for wetlands and high and major risk waterways containing water at the time of construction and in accordance with DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018), and any approval conditions, will maintain flow and water levels upstream and downstream of the construction site where required.</p>
<p>An invasive species that is harmful to the environmental values of the wetland being established (or an existing invasive species being spread) in the wetland.</p>	<p>Unlikely</p> <p>Establishment of an invasive species that is harmful to the environmental values of a wetland is unlikely to occur as a result of this project.</p> <p>Site-specific Weed and Pest Management Plan will be designed and implemented in accordance with relevant legislation. These plans will outline protocols to prevent the introduction of weed and pest species into the construction area and minimise the spread of declared weeds and pests within the project footprint.</p>

7.2.3.4 Waterway providing for fish passage

The following significant residual impact criteria for waterways providing for fish passage as listed in the *Significant Residual Impact Guideline 2014* (DEHP 2014b), have been assessed and the project is unlikely to have a significant impact on waterway providing for fish passage within the SGIC SDA pipeline alignment. A significant residual impact assessment is provided in Table 7-39.

Table 7-39 Significant residual impact assessment – waterway providing for fish passage

Significant residual impact criteria	Assessment
Result in the mortality or injury of fish; or	<p>Unlikely</p> <p>It is considered unlikely that the proposed pipeline works will result in the mortality or injury of fish. Construction will occur during the dry season within ephemeral waterways thereby avoiding injury and mortality. For tidal, high and major risk flowing waterways and HES wetlands, the pipeline will be constructed via various trenchless construction methods, further avoiding potential risks of fish mortality or injury. All construction operations will be conducted according to the DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018), and any approval conditions. If construction is required within a waterway supporting aquatic fauna, then fauna salvage will occur in accordance with DAF Fish Salvage Guidelines. A CEMP will be implemented to protect habitat quality downstream of construction.</p>
Result in conditions that substantially increase risks to the health, wellbeing and productivity of fish seeking passage such as through the depletion of fishes energy reserves, stranding, increased predation risks, entrapment or confined schooling behaviour in fish; or	<p>Unlikely</p> <p>It is considered unlikely that the proposed pipeline works will result in conditions that substantially increases the risks to the health, wellbeing and productivity of fish seeking passage. Key mitigation measures include construction during the dry season, use of various trenchless construction methods at waterways mapped as tidal, high and major risk under the WWBW spatial layer and HES wetlands that contain water at the time of construction.</p> <p>The capture and relocation of fish in wetted waterways in accordance with DAF Fish Salvage Guidelines will occur in any wetted waterway where construction occurs. A CEMP will be implemented for the protection of habitat quality within and downstream of the construction footprints.</p> <p>All works will be conducted in accordance with DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018) and therefore impacts to flow and fauna movement will be temporary and not result in health or ecological impacts to fish seeking passage.</p>
Reduce the extent, frequency or duration of fish passage previously found at a site; or	<p>Unlikely</p> <p>It is considered unlikely that the proposed pipeline works will reduce the extent, frequency or duration of fish passage within the SGIC SDA pipeline alignment. The location of the pipeline has been located to avoid and reduce impacts to permanent waterways.</p> <p>Construction will primarily occur within dry ephemeral waterways and no impacts to fish passage will occur. For tidal, high and major risk mapped waterways under the WWBW spatial layer and wetlands that contain water at the time of construction, various trenchless construction methods will be used to further avoid direct impacts to fish, fish movement and habitat quality.</p> <p>Where works occur in wetted habitats, additional controls for the protection of habitat and flow will be implemented including scheduling works outside of key migration or breeding periods., Works will be localised and unlikely to disrupt the passage of fish. Works in wetted waterways will be undertaken within 180 days (DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018)), or any approval conditions and will allow for continued or facilitated movements.</p>
Substantially modify, destroy or fragment areas of fish habitat (including, but not limited to in-stream vegetation, snags and woody debris, substrate, bank or riffle formations) necessary for the breeding and/or survival of fish; or	<p>Unlikely</p> <p>It is considered unlikely that the proposed pipeline works will substantially modify, destroy or fragment areas of fish habitat within the SGIC SDA pipeline alignment. The location of the pipeline has been located to avoid and reduce impacts to permanent waterways.</p> <p>Open trench construction methods will primarily occur within dry ephemeral waterways in which there will be a temporary modification of the dry creek bed and banks which will cause a temporary disturbance. However, it is expected that after construction, the watercourse beds and banks, along with other fish habitats within the footprint will be rehabilitated back to their natural state with no residual impact. For tidal, high and major risk mapped waterways under the WWBW spatial layer and HES wetlands that contain</p>

Significant residual impact criteria	Assessment
	<p>water at the time of construction, various trenchless construction methods will be used to further avoid direct impacts to fish habitat. Where works occur in wetted habitats, additional controls for the protection of habitat will occur including retaining any fish habitat such as woody debris for reinstatement following construction. Works will be localised and unlikely to substantially modify, destroy or fragment area of fish habitat.</p>
<p>Result in a substantial and measurable change in the hydrological regime of the waterway, for example, a substantial change to the volume, depth, timing, duration and frequency of flows; or</p>	<p>Unlikely</p> <p>It is considered unlikely that the proposed pipeline works will substantially or measurably change the hydrological regime of the waterways within the SGIC SDA pipeline alignment. Construction will primarily occur within dry ephemeral waterways and not impact upon the hydrological regime of these waterways. Mapped Wetlands and Waterways that contain water at the time of construction will utilise HDD to avoid impacts to the hydrological regime of the waterways.</p> <p>Where construction occurs in wetted habitats, works will be undertaken in accordance with the DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018), and any approval conditions to avoid significant residual impacts to flow and fauna movement. Where required, flow will be maintained through the construction footprint such that the volume, depth, timing, duration and frequency of flows will be maintained.</p>
<p>Lead to significant changes in water quality parameters such as temperature, dissolved oxygen, Ph and conductivity that provide cues for movement in local fish species.</p>	<p>Unlikely</p> <p>It is considered unlikely that the proposed pipeline works will lead to significant changes in water quality parameters within the SGIC SDA pipeline alignment. The location of the pipeline has been located to avoid and reduce impacts to permanent waterways. Construction will primarily occur within dry ephemeral waterways and not impact upon the water quality within these waterways. Mapped wetlands and waterways that contain water at the time of construction will utilise various trenchless construction methods that will avoid impacts to water quality of the waterways.</p> <p>During any works that may occur in wetted waterways and during any potential discharge from coffer dams a WQMP, as per the CEMP, will be developed to identify the potential for water quality degradation and allow for adaptive management if required. Therefore, works within the project are unlikely to impact upon water quality parameters and thereby not disrupt environmental cues for movement of local fish species.</p>

7.3 Northern Section

7.3.1 Significant Impacts on MNES and MSES species

This section assesses the significance of the Northern Section impacts on MNES and MSES that have been confirmed present or are considered likely to occur within the Northern Section study area. The significance of impact assessment has been undertaken in accordance with the Queensland *Significant Residual Impact Guideline* (DEHP 2014b) and Commonwealth *Significant Impact Guidelines 1.1* (DoE 2013). A summary of outcomes of the MNES and MSES significant impact assessment are presented in Table 7-40.

Table 7-40 Summary of residual significant impact assessment on MSES

Species	Significant impact	EPBC Approval	Assessed as MSES	Assessed as MNES
Estuarine crocodile	Unlikely		✓	
White-throated snapping turtle	Unlikely		✓	
Squatter pigeon (southern)	Unlikely	✓	✓	
White-throated needletail	Unlikely		✓	
Platypus	Unlikely		✓	
Koala	Unlikely		✓	
Fitzroy River turtle	Unlikely	✓	✓	
Australian painted snipe	Unlikely	✓	✓	

7.3.1.1 Squatter pigeon (southern)

Conservation status and species ecology

The squatter pigeon (southern) is listed as vulnerable under the EPBC Act and NC Act and was listed as an MNES at the time of the approval. Its current distribution extends from central Queensland, west to Longreach and Charleville, and south to New South Wales (DCCEEW 2022h). The species occurs in remnant and regrowth open forest and woodland dominated by *Eucalyptus*, *Corymbia*, *Acacia* and *Callitris* species with tussock grassy understorey with 3 km of water sources (DCCEEW 2022h). Soils are generally a good predictor of their foraging and breeding habitat, which is generally restricted to well-draining, gravelly, sandy, or loamy soils. These typically have a patchy ground layer composed of native perennial tussock grasses or a mix of native perennial tussock grasses and low shrubs or forbs (Squatter Pigeon Workshop 2011). Breeding habitats are typically on stony rises within 1 km of permanent water (Squatter Pigeon Workshop 2011). The subspecies is unlikely to move far from woodland trees which provide protection from predatory birds (Squatter Pigeon Workshop 2011). Where scattered trees still occur, and the distance of cleared land between remnant trees or patches of habitat does not exceed 100 m, individuals may be found foraging in, or moving across modified or degraded environments (Squatter Pigeon Workshop 2011).

Field survey results and distribution of suitable habitat

The squatter pigeon (southern) was not recorded during the field surveys within the Northern Section study area. Survey effort for the squatter pigeon included driving and flushing surveys within potentially suitable habitat within the Northern Section study area. The species has been historically recorded at 194 locations within the desktop search extent, the most recent record recorded in 2019. No suitable breeding habitat was recorded within the Northern Section study area; however, areas of potentially suitable foraging habitat was recorded in open eucalypt woodland with grassy understorey. The distribution of predicted squatter pigeon (southern) habitat is mapped in Figure 7-22.

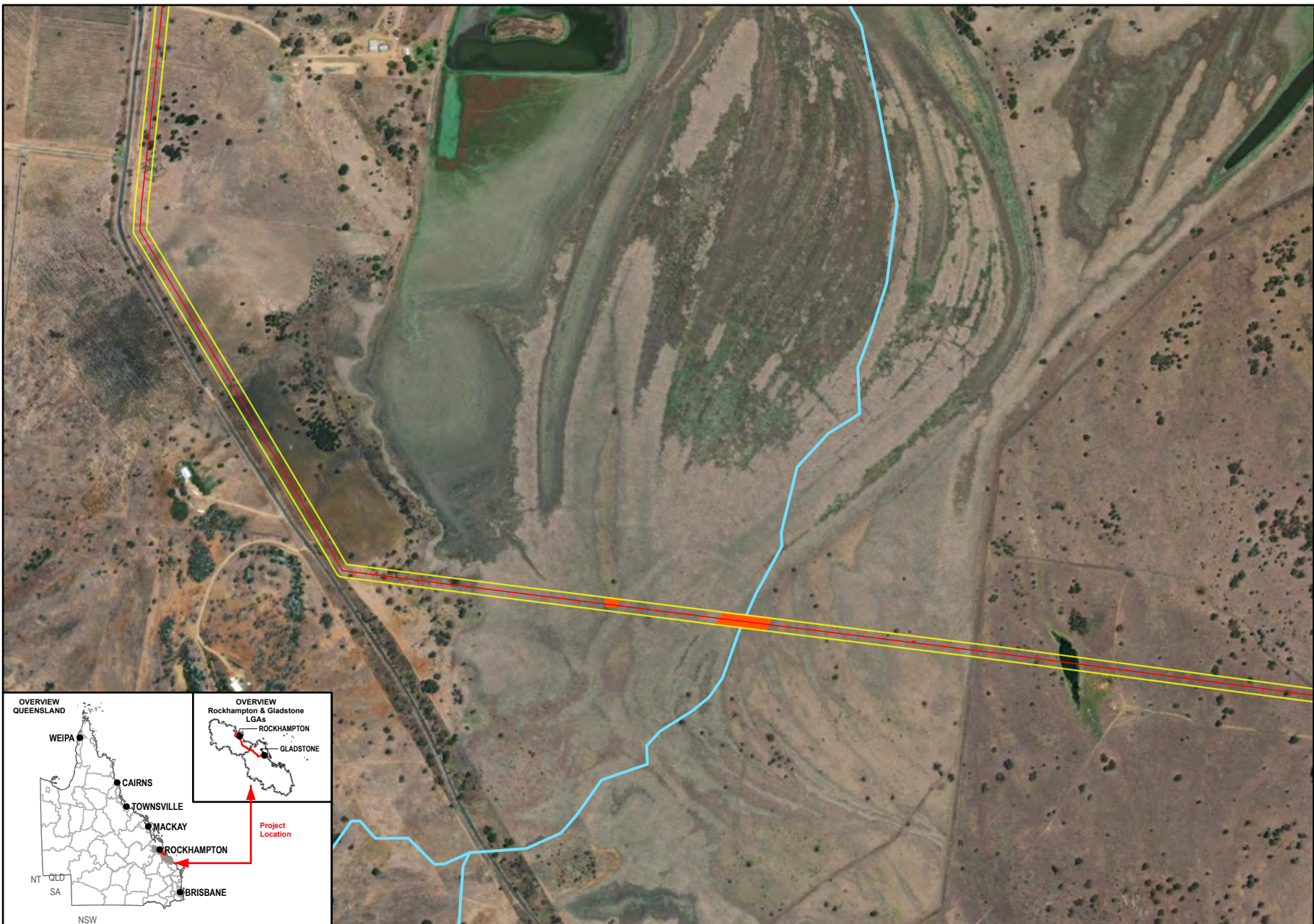
Significance of impact assessment

The project is unlikely to result in a significant residual impact on squatter pigeon (southern). A significance of impact assessment of the project on squatter pigeon (southern) (vulnerable under the EPBC Act and NC Act) is provided in Table 7-41.

Table 7-41 Significance of impact on squatter pigeon (southern)

Significant residual impact criteria	Assessment
A long-term decrease in the size of a local population	<p>Unlikely</p> <p>The squatter pigeon (southern) is abundant within the region. The species has been historically recorded at 194 locations within the desktop search extent (10 km buffer), however no individuals were recorded during field surveys. The local population is not an important population at a national level. Important populations of the squatter pigeon (southern) have been identified in the Commonwealth approved conservation advice as all of the relatively small, isolated and sparsely distributed sub-populations occurring south of the Carnarvon Ranges in Central Queensland (Squatter Pigeon Workshop 2011). Populations in the southern parts of the subspecies range have experienced dramatic declines due to land clearing and grazing by sheep, which tends to have more significant adverse impacts on the subspecies than cattle grazing (TSSC 2015). The subspecies is still locally abundant within cattle grazing areas at the northern parts of its range (TSSC 2015). The loss of 5.55 ha of habitat (representing 0.17% of habitat within a 5 km buffer) is not expected to lead to a decline in the local squatter pigeon (southern) population and the subspecies will likely continue to persist in large numbers within the local area and surrounding region. Due to their localised and relatively temporary nature, construction and operation impacts associated with the Northern Section pipeline alignment are unlikely to have any permanent impacts on the persistence of local and regional squatter pigeon (southern) populations. Increased vehicular movements during construction will increase the risk of mortality and injury of squatter pigeons (southern); however, this will be managed through implementing speed limits and signage in areas that may support the subspecies. The project is expected to be relatively benign in terms of operational impacts with negligible noise, vibration, land disturbance and vehicular movements. Permanent speed limits and signage on internal roads and education of staff during inductions will minimise the risk of direct mortality by operational vehicles. As such, the project is unlikely to lead to a long-term decrease in the size of a local population of the species.</p>
Reduce the extent of occurrence of the species	<p>Unlikely</p> <p>As detailed above, the squatter pigeon (southern) is abundant within the region. The maximum width of clearing required for construction of the Northern Section pipeline alignment is 30 m. Once the pipeline has been installed and buried, a maximum width of 10 m will be permanently cleared with the remaining 20 m to be rehabilitated. The project will result in a loss of 5.55 ha of potential habitat for the squatter pigeon (southern). This represents only a small percentage of the predicted habitat available within a 5 km buffer (0.17%). Suitable foraging habitat and resources will persist in the area immediately adjacent to the Northern Section pipeline alignment, and the extent and magnitude of mortality during construction is such that the subspecies will continue to persist locally.</p> <p>Given the relatively benign nature of the project in its operation phase, and the continued presence of suitable habitat within the local area, the project is unlikely to result in a localised reduction in the extent of occurrence per the Queensland <i>Significant Residual Impact Guideline</i> (DEHP 2014b): <i>Extent of occurrence is defined as the area contained within the shortest continuous imaginary boundary which can be drawn to encompass all the known, inferred or projected sites of present occurrence of a taxon.</i></p>
Fragment an existing population	<p>Unlikely</p> <p>Fragmentation of the existing squatter pigeon (southern) population is not expected, as the maximum width of clearing required for construction of the Northern Section pipeline alignment (30 m) is narrow and linear. This is unlikely to present a permanent barrier to the squatter pigeon (southern) movement. Once the pipeline has been installed and buried, a maximum width of 10 m will be permanently cleared with the remaining 20 m to be rehabilitated. Habitat connectivity will be maintained among areas of habitat within and adjacent to the Northern Section pipeline alignment, by maintaining ground-level substrates and vegetation, and by retaining existing unsealed tracks that provide important pathways for local squatter pigeon (southern) movement. The implementation of the Weed Management Plan is expected to maintain suitable ground-level habitat and continue to facilitate ground-level movement of the squatter pigeon (southern). Based on these considerations, the project is unlikely to fragment the existing squatter pigeon (southern) population.</p>
Result in genetically distinct populations forming as a result of habitat isolation	<p>Unlikely</p> <p>As detailed above, the subspecies' capacity to move locally and regionally is unlikely to be limited by any localised land clearing necessary to construct the Northern Section pipeline alignment. As a result, the project is unlikely to cause any loss of gene transfer that would cause genetically distinct populations to form.</p>

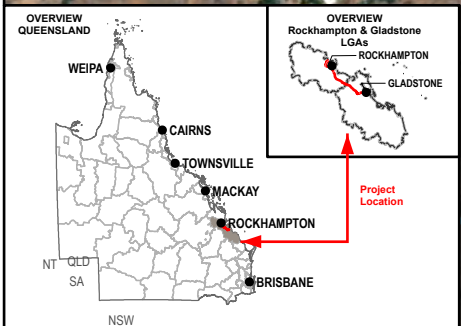
Significant residual impact criteria	Assessment
Result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species habitat	<p>Unlikely</p> <p>The project footprint is currently impacted by weed and pest species that could be harmful to the squatter pigeon (southern). The presence of these invasive species is unlikely to be exacerbated by the project, and any risks of their establishment will be managed via a site-specific CEMP and operational EMP.</p>
Introduce disease that may cause the population to decline	<p>Unlikely</p> <p>Recognised threats to the squatter pigeon (southern) do not include diseases. It is however, not expected that the project would result in the introduction of disease.</p>
Interfere with the recovery of the species	<p>Unlikely</p> <p>The project is unlikely to interfere substantially with the recovery of the species. The loss of habitat is unlikely to be significant, representing only 5.55 ha of habitat present within the GSDA pipeline alignment and 0.17% within a 5 km buffer. Implementation of a CEMP for the project has the potential to increase the value of local habitats through the control of weed and pest species. Local noise disturbance and mortality threats associated with the project are also expected to be low.</p>
Result in disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species	<p>Unlikely</p> <p>The project will require the clearing of 5.55 ha of potentially suitable foraging habitat for the squatter pigeon (southern). Despite the loss of suitable habitat within the Northern Section pipeline alignment, connectivity to extensive areas retaining suitable foraging and breeding habitat for the subspecies will persist in the surrounding landscape.</p> <p>The Northern Section pipeline alignment has largely been placed within or adjacent to areas that have been previously cleared for linear infrastructure such as railways, roads, access tracks and pipelines. Given the subspecies was recorded along existing access tracks and cleared areas within the GSDA and SGIC SDA study area during the 2022 field surveys, the project is unlikely to result in disruption to ecologically significant locations of the species.</p>
Conclusion	<p>The project is unlikely to result in a significant residual impact on the squatter pigeon (southern). The project has been located within areas that have been previously cleared for agricultural practices and will result in small loss of 5.55 ha of potentially suitable foraging habitat within the Northern Section pipeline alignment. Furthermore, the project is unlikely to impact the species' breeding cycle, as no suitable breeding habitat was not identified within the Northern Section pipeline alignment.</p>



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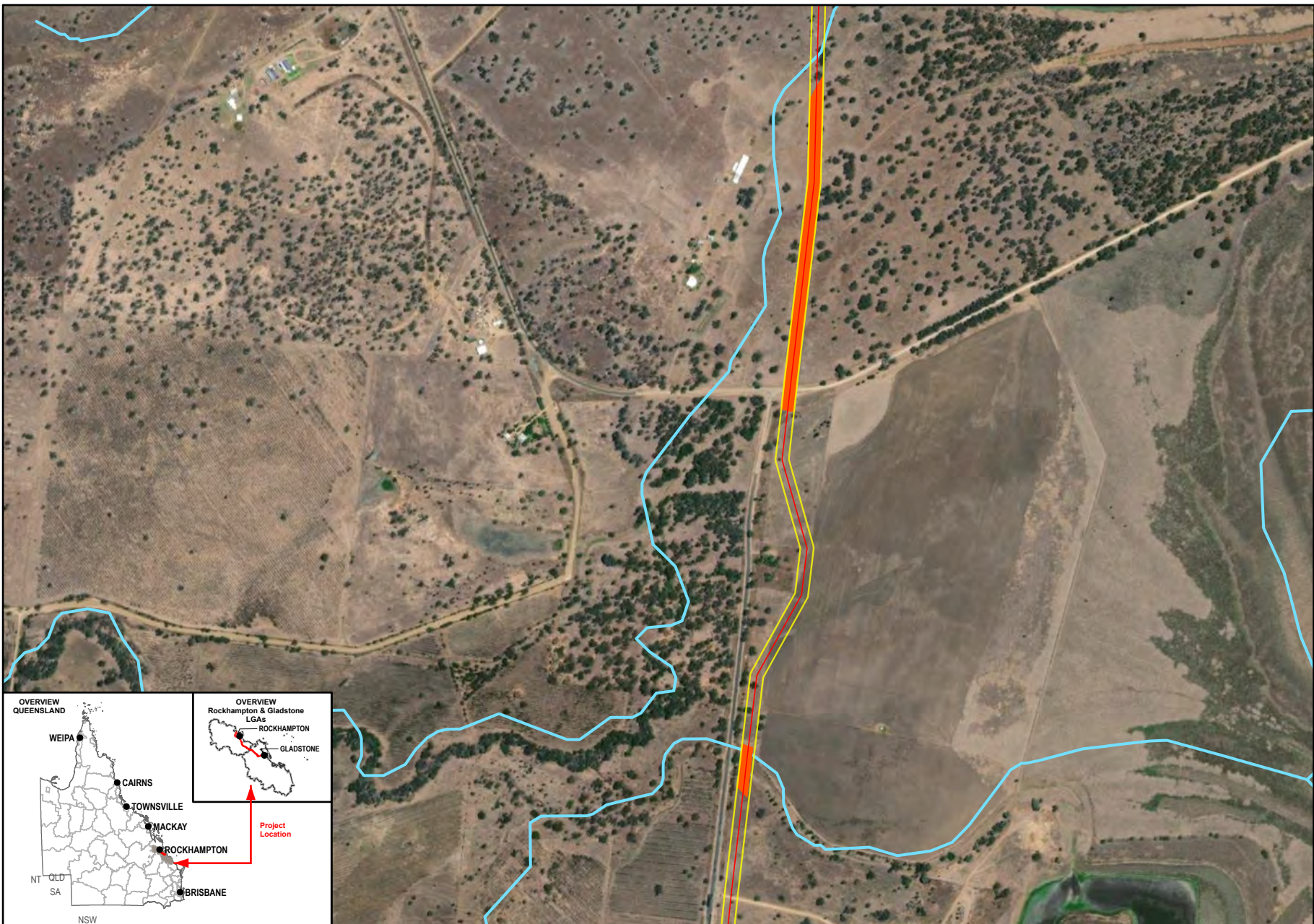
Legend

- GSDA Pipeline Alignment
- Study Area
- Predicted Squatter Pigeon (Southern) Habitat**
- Habitat Type**
- Potential Foraging Habitat
- Waterways



Data Sources:
 1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
 2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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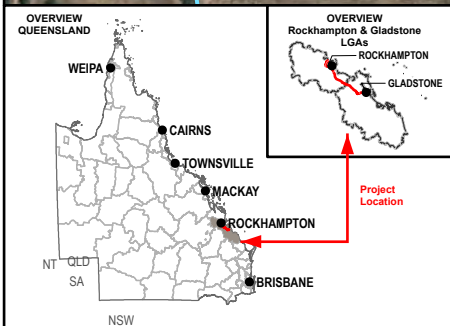


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- Legend**
- GSDA Pipeline Alignment
 - Study Area
- Predicted Squatter Pigeon (Southern) Habitat**
- Habitat Type**
- Potential Foraging Habitat
 - Waterways

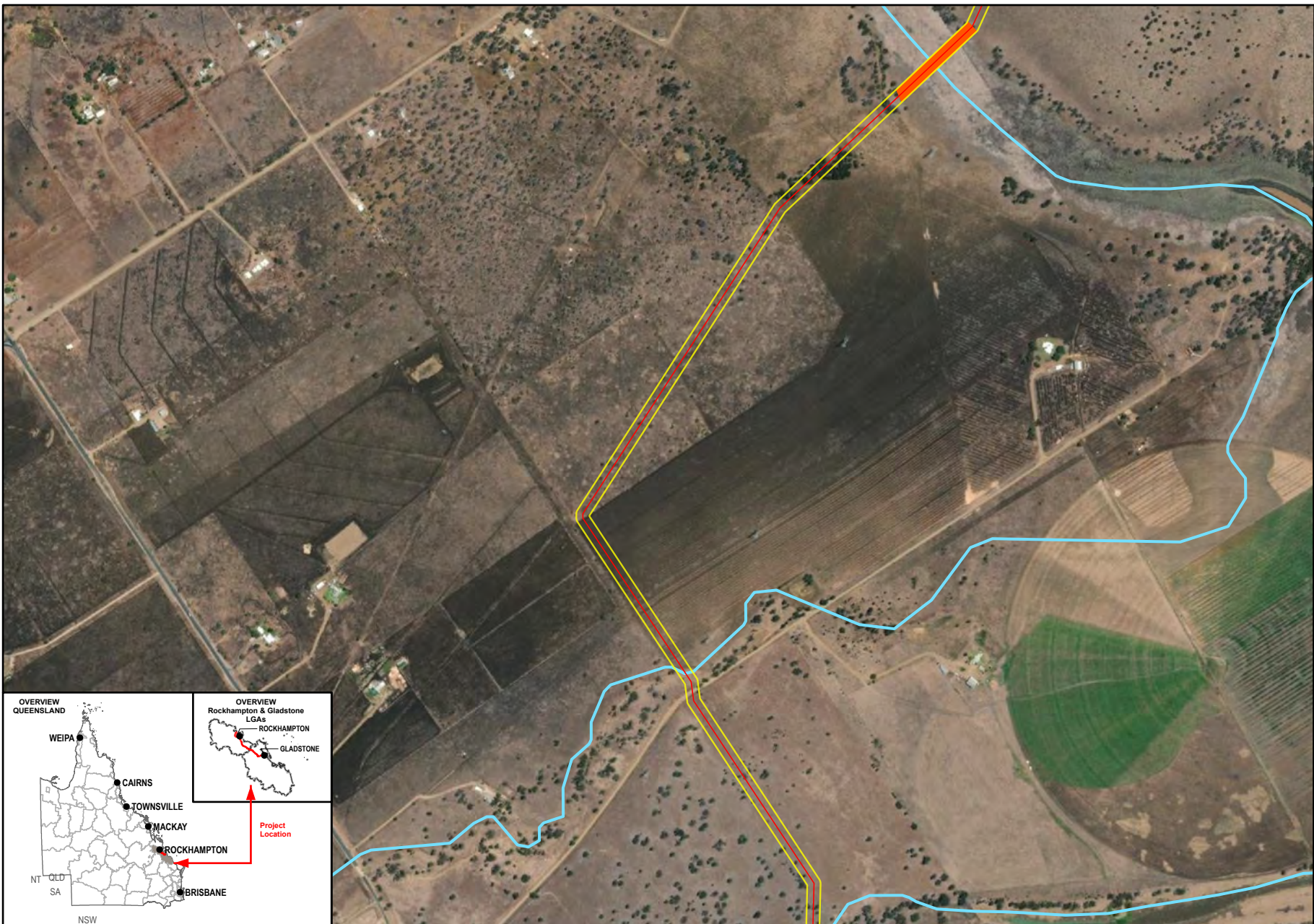


Data Sources:

1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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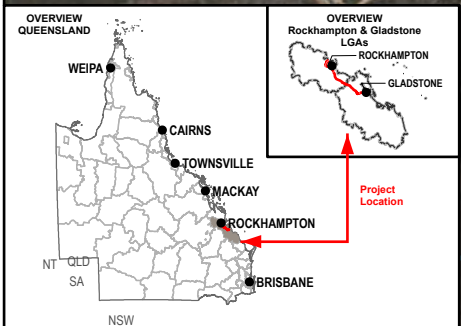
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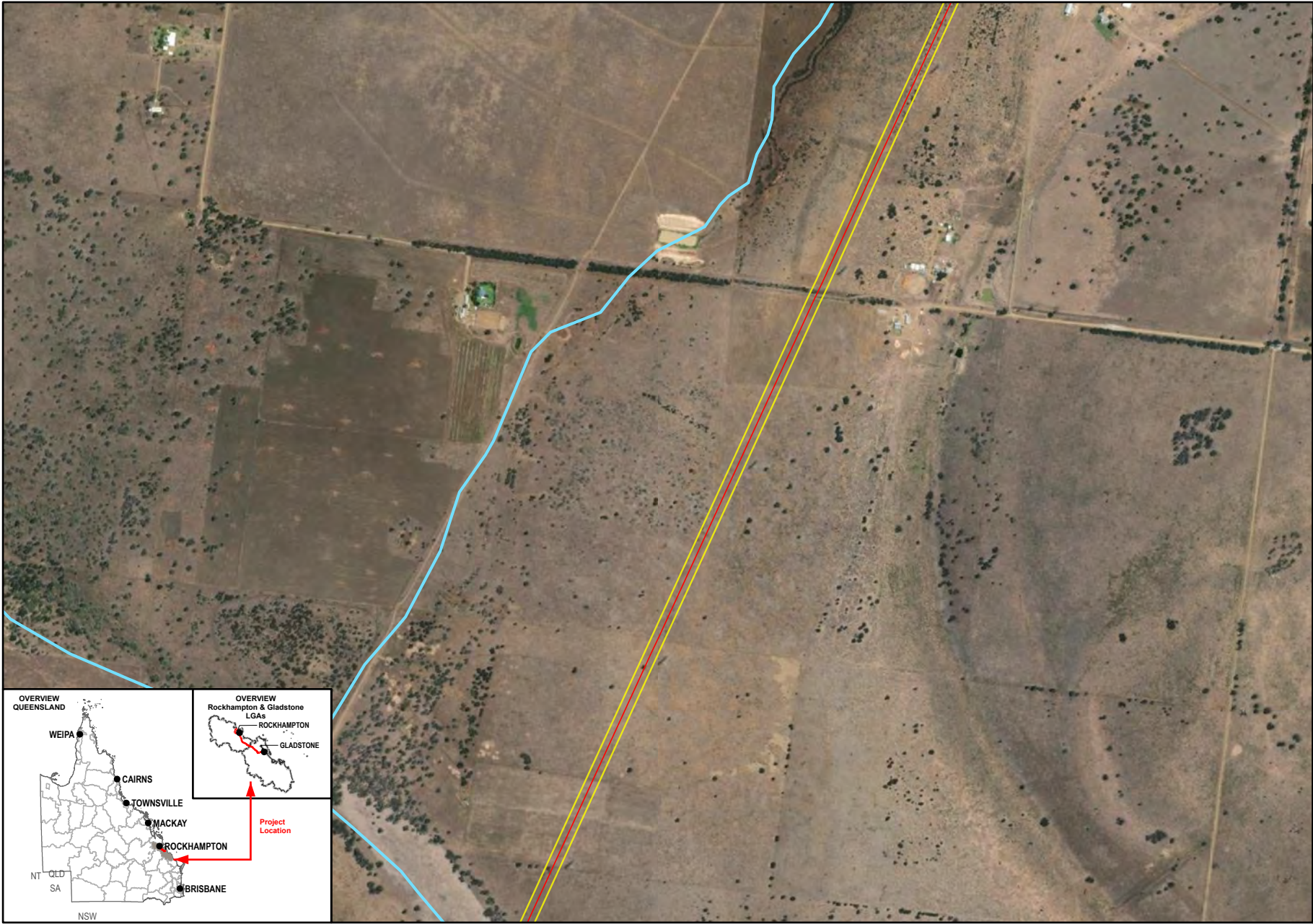
Legend

- GSDA Pipeline Alignment
- Study Area
- Predicted Squatter Pigeon (Southern) Habitat**
- Habitat Type**
- Potential Foraging Habitat
- Waterways



Data Sources:
 1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
 2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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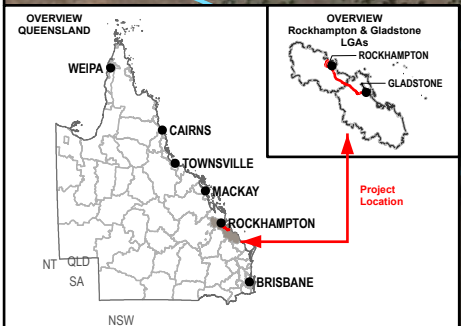
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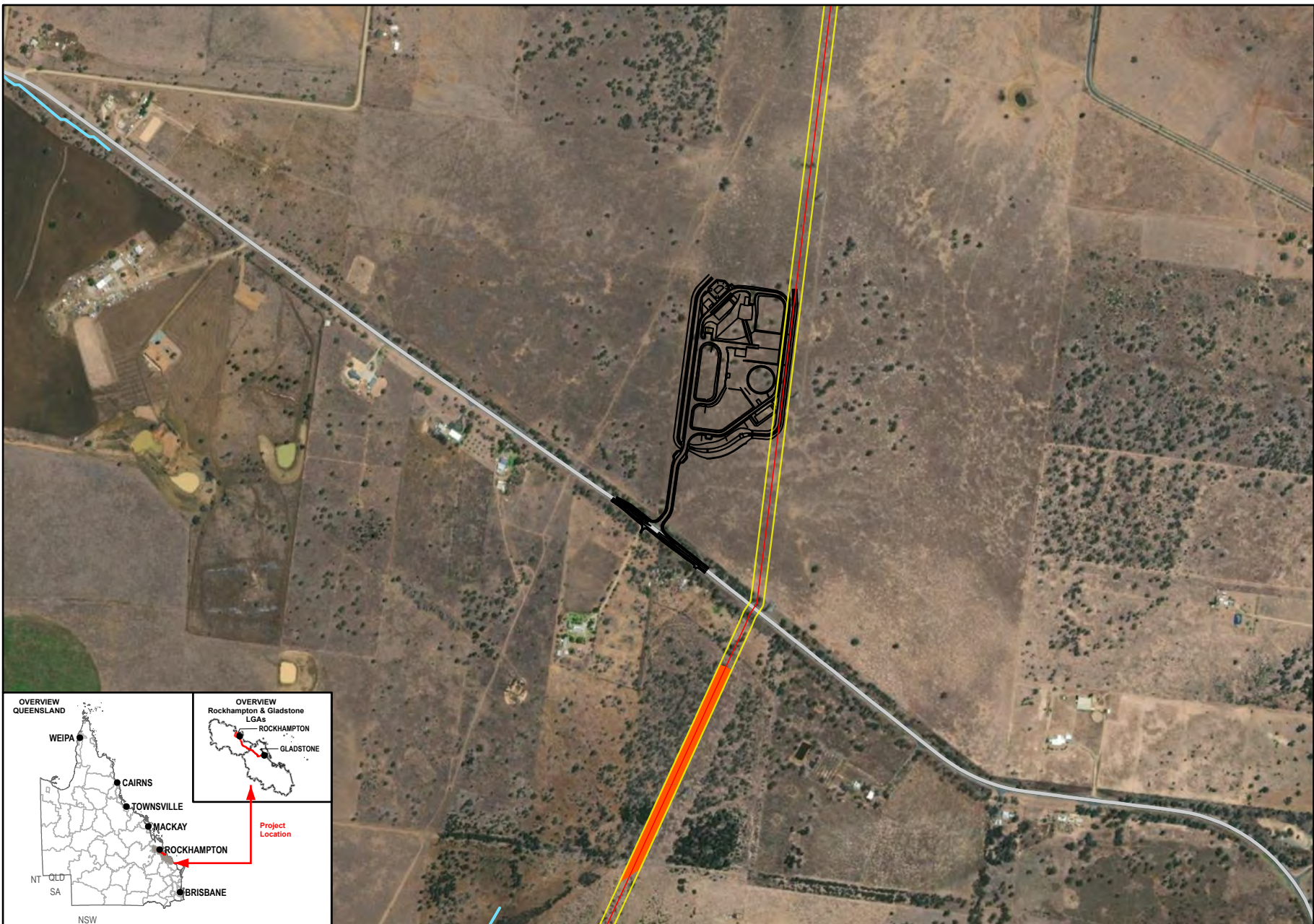
Legend

- GSDA Pipeline Alignment
- Study Area
- Waterways

Data Sources:
 1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
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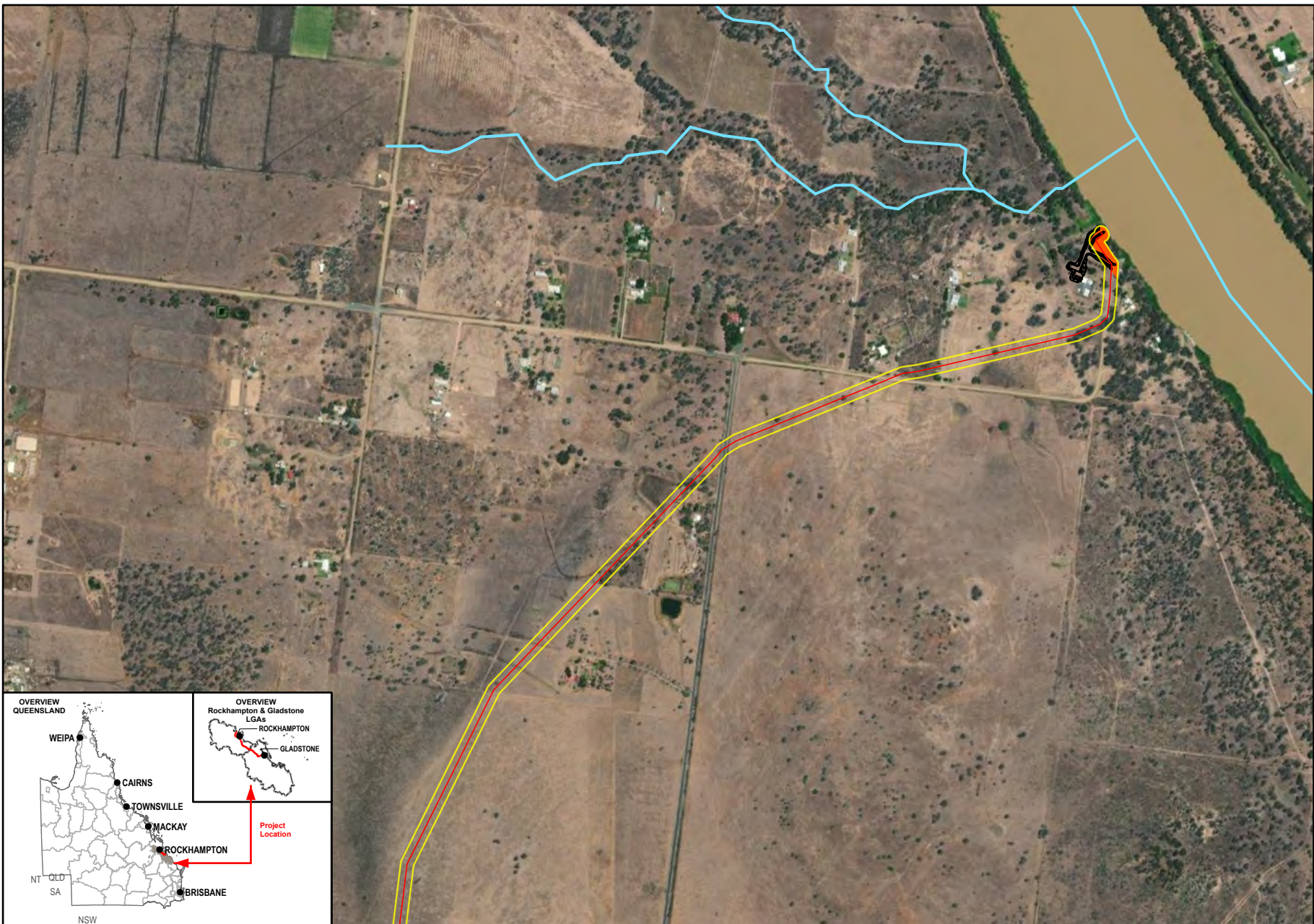
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- Legend**
- GSDA Pipeline Alignment
 - Study Area
 - Predicted Squatter Pigeon (Southern) Habitat**
 - Habitat Type**
 - Potential Foraging Habitat
 - Alton Down WTP, Pump Station and Reservoir Layout
 - Waterways
 - Main Roads

Data Sources:

1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

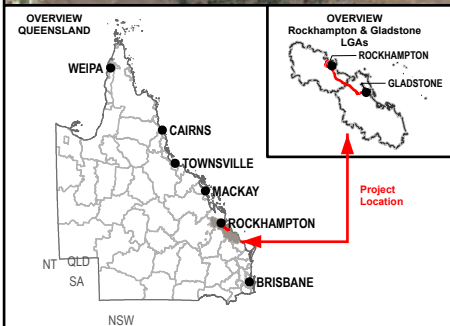
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- Legend**
- GSDA Pipeline Alignment
 - Study Area
 - Predicted Squatter Pigeon (Southern) Habitat**
 - Habitat Type**
 - Potential Foraging Habitat
 - Fitzroy River Intake and Pump Station Layout
 - Waterways



Data Sources:

1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
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7.3.1.2 White-throated needletail

Conservation status and species ecology

The white-throated needletail (*Hirundapus caudacutus*) is listed as vulnerable and migratory under the EPBC Act and vulnerable under the NC Act. The species was not listed as an MNES at the time of the approval. The species is almost exclusively aerial, occurring from heights of less than 1 m up to more than 1000 m above the ground (TSSC 2019). Recent research has shown that while the species is predominantly aerial, the white-throated needletail does roost on land at least occasionally, with roosts typically located in tall woodland on ridgelines and clifftops, where the birds can easily alight (Tarburton 2021). The species forages at heights up to cloud height over a range of habitat types including woodland, open forest, rainforest, heathland and partly cleared pasture and agricultural land (TSSC 2019). The species does not breed in Australia but occurs widely throughout Australia during the non-breeding period (TSSC 2019).

Field survey results and distribution of suitable habitat

The species was not recorded in field surveys but is considered likely to occur due to the presence of nearby historical records and the species' wide-ranging nature. Substantial areas of potential roosting habitat are located on ridgetops, east of the Northern Section study area. No suitable roosting habitat occurs within or immediately adjacent to the Northern Section study area. The species has the potential to forage across the entire Northern Section study area at heights between 15 m and 1000 m.

Significance of impact assessment

The project is unlikely to result in a significant residual impact on the white-throated needletail. A significance of impact assessment of the project on the white-throated needletail (vulnerable under the EPBC Act and NC Act) is provided in Table 7-42.

Table 7-42 Significance of impact on the white-throated needletail

Significant residual impact criteria	Assessment
A long-term decrease in the size of a local population	Unlikely While the white-throated needletail was not recorded in the Northern Section field surveys, the species has been historically recorded in the desktop search extent. The species is regarded as a transient visitor to the Northern Section study area, through the region in response to climatic conditions (e.g. bushfires, wind fronts and storm fronts). Given the species' capacity for large-scale migration and its enigmatic patterns of movement and occurrence, the concept of 'localised populations' is difficult to ascribe to this bird. The species is predominantly aerial and is generally not reliant on terrestrial habitats (DCCEEW 2022i). While the species does occasionally utilise terrestrial roosting sites, all nearby terrestrial roosting habitats are located on ridgetops away from the project and is unlikely to be directly or indirectly impacted by the construction and operation of the project.
Reduce the extent of occurrence of the species	Unlikely No potential habitat for the white-throated needletail will be directly or indirectly impacted by the project. The species has an extensive capacity for movement and is unlikely to experience any localised decline that would cause the species to no longer persist within the area. The project is likely to be relatively benign in its impact on the species during the operational phase.
Fragment an existing population	Unlikely The white-throated needletail is highly nomadic and can form large, mixed-species feeding flocks. This near-exclusively aerial, migratory species is capable of long-distance flight. The species' movements is unlikely to be restricted by the project. As such, the project is unlikely to fragment the existing population.
Result in genetically distinct populations forming as a result of habitat isolation	Unlikely The species' capacity to move locally and regionally is unlikely to be limited by any localised land clearing necessary to construct the Northern Section pipeline alignment. As a result, the project is unlikely to cause any loss of gene transfer that would cause genetically distinct populations to form.

Significant residual impact criteria	Assessment
Result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species habitat	Unlikely No invasive species are identified as threats to the white-throated needletail. The extent of clearing for the Northern Section pipeline alignment may increase the accessibility of introduced predators including dogs, foxes and cats into the site. Pest fauna management practices will be implemented throughout the construction and operations periods and are anticipated to decrease the abundance of invasive predators, further reducing the species vulnerability within the Northern Section pipeline alignment.
Introduce disease that may cause the population to decline	Unlikely Disease is not identified as a key threat to the white-throated needletail. This species' almost exclusively aerial habit means it is unlikely to have many opportunities to contract diseases that could threaten the viability of individuals and populations. The project is therefore unlikely to introduce disease that cause the species to decline.
Interfere with the recovery of the species	Unlikely The proposed works are considered unlikely to negative impact the species, let alone interfere with the recovery of the species.
Result in disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species	Unlikely The species is predominantly aerial, foraging at heights up to cloud height over a range of habitat types (TSSC 2019). The white-throated needletail is a non-breeding visitor to Australia, and breeds between October and April throughout Siberia, China, Japan and Mongolia (DCCEEW 2022i). As such, habitat within the Northern Section pipeline alignment is not considered ecologically significant.
Conclusion	The project is considered unlikely to result in a significant impact on the white-throated needletail. The species is predominantly aerial and all nearby terrestrial roosting habitats are located on ridgetops away from the project and will not be directly or indirectly impacted by the construction and operation of the project.

7.3.1.3 Koala

Conservation status and species ecology

The koala is listed as endangered under the EPBC Act and NC Act and was not listed as an MNES at the time of the approval. The koala occurs in Queensland, New South Wales, the Australian Capital Territory, Victoria and South Australia. The species' occurrence is discontinuous across its distribution with several subpopulations separated by cleared lands and unsuitable habitat (DAWE 2022a). They are a wide-ranging species, typically occurring in forests and woodlands dominated by *Eucalyptus* species (DAWE 2022a). The species occurs in coastal and inland habitats – in Queensland this spans north Queensland to the Herberton area, westwards into semi-arid parts of central Queensland, and south into New South Wales (DAWE 2022a). The koala's range is restricted by food, habitat and environmental requirements, resulting in highly variable home range sizes. In Queensland and New South Wales, home ranges vary from 3 to 500 ha (DAWE 2022a), with home range increasing as trees become more widely spaced (DAWE 2022a; Youngentob 2021). Males typically have larger home ranges than females, and in general, home ranges are larger in semi-arid woodlands than in mesic coastal forests (DAWE 2022a). Since European colonisation, the koala's distribution and population size has declined significantly as a result of vegetation clearance and climate change drivers (DAWE 2022a).

In Queensland, koala inhabit moist coastal forests, southern and central western subhumid woodlands and eucalypt woodlands adjacent to waterbodies in semi-arid western parts of the state (Youngentob 2021). The species' occurrence is patchy, fragmented and often occurs in low-density populations across a number of bioregions including north to Einasleigh Uplands and Wet Tropics, Desert Uplands, Central Mackay Coast, Mitchell Grass Downs, Mulga Lands, Brigalow Belt North, Brigalow Belt South, and Southeastern Queensland where they are most frequently sighted (DAWE 2022a; Youngentob 2021).

The koala is an obligate folivore and its highly specialised diet is defined by the availability and palatability of a limited variety of *Eucalyptus*, *Corymbia* and *Angophora* species (Youngentob 2021). Primary food species differ across the species' range – koalas have been recorded to feed on more than 120 species of *Eucalyptus*,

Corymbia and *Angophora* species. The koala is a relatively sedentary species, with movement increasing during the breeding period (September to February) (DAWE 2022a).

In the assessment of habitat quantity and quality, the National Recovery Plan for the koala (DAWE 2022b) highlights the importance of considering landscape patch size, form and spatial configuration within the context of the wider landscape, which can vary among landscapes and varies regionally (DAWE 2022b). Research has shown that koalas move very differently through different landscapes, depending on the level of habitat connectivity that has been retained (DAWE 2022b). In contiguous landscapes with high connectivity, koalas move slowly between koala habitat trees along vegetated watercourses, roadsides and other areas of functional connectivity. This increases their energetic efficiency and reduces their susceptibility to predation (DAWE 2020b). In more fragmented landscapes, koalas follow more direct movement pathways and demonstrate an increased willingness to cross open areas at ground level to move between isolated patches of vegetation (DAWE 2022b) albeit their safety is at risk and the open and exposed landscape proves to be a hostile environment (DAWE 2022b). In the context of a contiguous landscape, where high levels of linear habitat connectivity are retained along watercourses, vegetated roadsides and fence lines and where dog attacks on livestock have been reported by local landholders, large open paddocks are expected to receive low levels of utilisation by koalas.

Field survey results and distribution of suitable habitat

The koala was not recorded during the field surveys within the Northern Section study area. Survey effort for the koala included one night of 2-3 hours of spotlighting and faecal pellet searches at four locations within potentially suitable habitat in the Northern Section study area. The species has been historically recorded at five locations within the desktop search extent, the most recent recorded in 2011.

Potentially suitable habitat for this species was widespread within the Northern Section study area, particularly within habitats retaining koala food trees (i.e. *Melaleuca*, *Eucalyptus*, *Corymbia* and *Acacia* species) and fringing riparian vegetation. The distribution of predicted koala habitat was based on criteria detailed in Appendix F and is mapped in Figure 7-23. Habitat assessments undertaken within the Northern Section study area involved taking representative photos of the vegetation and general habitat. Eight habitat assessment sites within the Northern Section study area were selected to illustrate suitable habitat for the koala, as well as presenting photos of areas that do not represent suitable habitat due to the lack of koala food and shelter trees. Each survey photo reference number refers to the photo that was taken at that habitat assessment site and is presented in Appendix G. Of those eight habitat assessment site photos, two photos (i.e. photo number 32 and 35) represent suitable koala habitat.

Significance of impact assessment

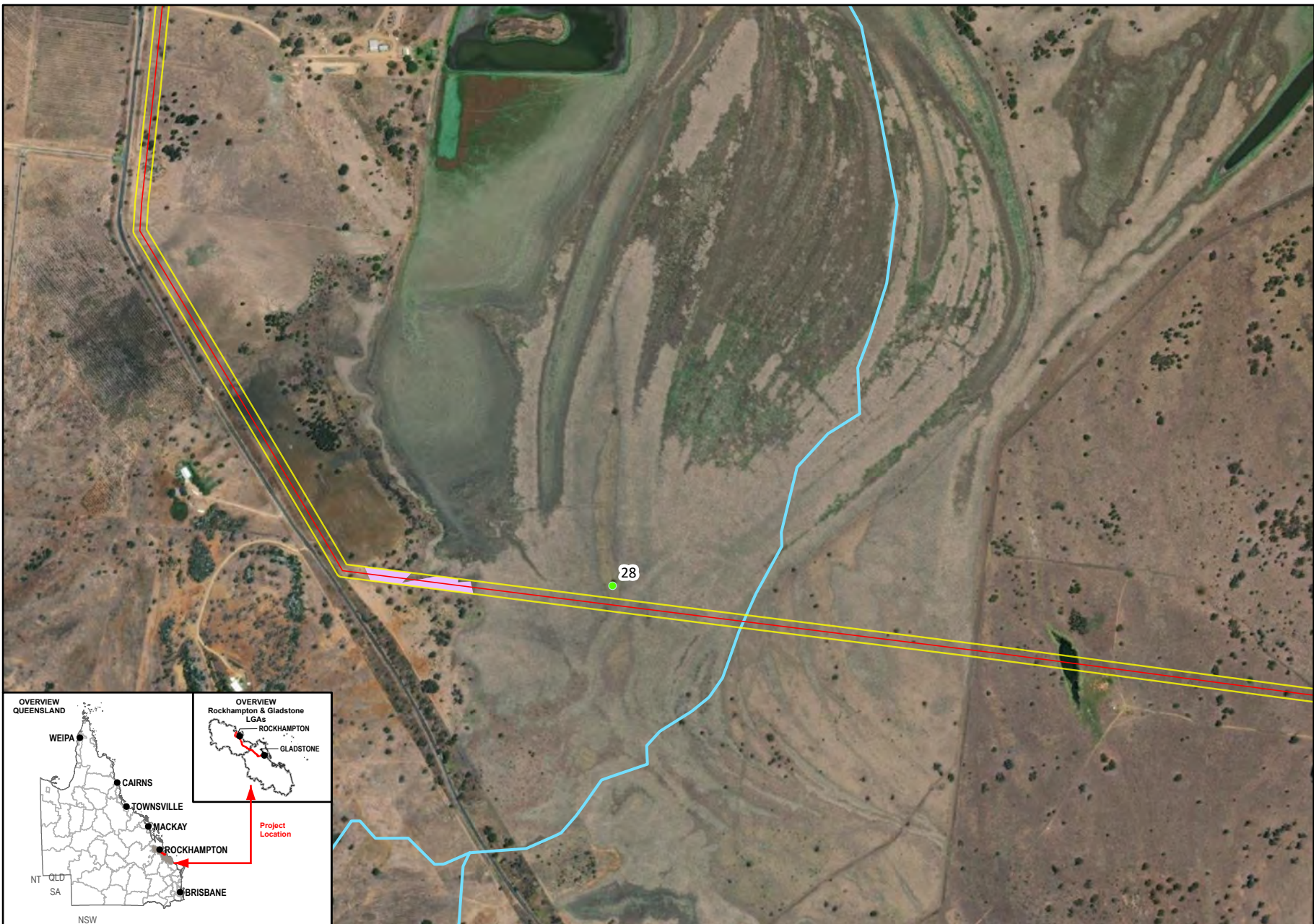
The project is unlikely to result in a significant residual impact on the koala. A significance of impact assessment of the project on the koala (endangered under the EPBC Act and NC Act) is provided in Table 7-43.

Table 7-43 Significance of impact on the koala

Significant residual impact criteria	Potential to occur
A long-term decrease in the size of a local population	<p>Unlikely</p> <p>The koala population within the Northern Section study area is considered an important population in the accordance with the Commonwealth approved conservation advice. The koala has been historically recorded at five locations within the desktop search extent (10 km buffer). No individuals or evidence of presence was recorded during the 2022 field surveys. Based on the ecological field surveys and species ecology, koalas are predicted to occur at low densities within the Northern Section pipeline alignment. The project is anticipated to result in the loss of 5.26 ha of suitable koala habitat. This represents 0.17% of regional habitat (i.e. available within a 5 km buffer). The maximum width of clearing required for construction of the Northern Section pipeline alignment is 30 m. Once the pipeline has been installed and buried, a maximum width of 10 m will be permanently cleared with the remaining 20 m to be rehabilitated.</p> <p>The Northern Section pipeline alignment largely supports open landscapes that have been previously cleared for agricultural purposes with suitable koala habitat occurring along riparian corridors and large <i>Eucalyptus</i> and <i>Corymbia</i> trees occurring sparsely throughout the landscape.</p>

Significant residual impact criteria	Potential to occur
	<p>Relatively large areas of suitable habitat will persist in the surrounding landscape allowing opportunities for movement, including woodland habitats, riparian corridors and large areas of remnant habitat.</p> <p>Construction and operation impacts associated with the project are unlikely to have permanent impacts on the persistence of local and regional koala populations. Based on the scarcity of historical records and lack of koala traces in field surveys, koalas are likely to occur in low local densities. While the loss of 40.92 ha of suitable habitat will reduce the local availability of koala food and shelter trees, this is unlikely to lead to excessive competition for resources, given the low koala densities. The local loss of resources is therefore likely to be absorbed within remaining habitat in areas adjacent to the Northern Section pipeline alignment. Therefore, the local koala population is not expected to experience a significant reduction in foraging and breeding success due to any increase in competition for resources.</p>
Reduce the extent of occurrence of the species	<p>Unlikely</p> <p>The project is anticipated to result in the loss of 5.26 ha of suitable koala habitat. This represents 0.17% of regional habitat (i.e. available within a 5 km buffer)</p> <p>A maximum width of 30 m will be cleared for construction of the Northern Section pipeline alignment, with 20 m to be rehabilitated after the pipeline has been installed and buried. A large proportion of the Northern Section study area has been previously cleared for agricultural purposes. Large areas of suitable koala habitat will persist within the landscape and along riparian corridors immediately adjacent to the Northern Section pipeline alignment. The project is unlikely to disrupt connectivity to the extent that movement between remnant patches will be disrupted. As such, there is not expected to be a change in the extent of occurrence of the species, especially noting the definition of extent of occurrence per the Queensland <i>Significant Residual Impact Guideline</i> (DEHP 2014b): <i>Extent of occurrence is defined as the area contained within the shortest continuous imaginary boundary which can be drawn to encompass all the known, inferred or projected sites of present occurrence of a taxon.</i></p>
Fragment an existing population	<p>Unlikely</p> <p>A maximum width of 30 m will be cleared for construction of the Northern Section pipeline alignment, with 20 m to be rehabilitated after the pipeline has been installed and buried. A large proportion of the Northern Section study area has been previously cleared for agricultural and pastoral purposes. Much of the Northern Section pipeline alignment is expected to clear small areas of regrowth vegetation, fringing vegetation along waterways and large, isolated <i>Eucalyptus</i> and <i>Corymbia</i> tree species.</p> <p>Habitat loss within the Northern Section pipeline alignment is not expected to impact connectivity with surrounding koala habitat as the habitat losses will be localised and is not considered to create large gaps to disrupt koala movement. Connectivity will persist within the landscape and along riparian corridors immediately adjacent to the Northern Section pipeline alignment. Therefore, the project is unlikely to fragment an existing koala population. It is noted that the local koala population in the landscape is likely to be very low, noting the low number of historic records and no contemporary records from 2022 field surveys.</p>
Result in genetically distinct populations forming as a result of habitat isolation	<p>Unlikely</p> <p>As detailed above, the species' capacity to move locally and regionally is unlikely to be limited by any localised land clearing necessary to construct the Northern Section pipeline alignment. As a result, the project is not considered to cause any form of genetic isolation at a population level.</p>
Result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species habitat	<p>Unlikely</p> <p>Invasive species including wild dogs already occur throughout the area. Predatory species are attracted to prey opportunities presented by cleared corridors or prey moving away from disturbance areas. While new infrastructure has the potential to increase the risk of wild dog attack on koala by facilitating regional movement of dogs, these threats are already present within the receiving environment and are not likely to be exacerbated by the project. Feral animal control measures will be implemented throughout the duration of the project and have been designed to mitigate such risks.</p> <p>There is also potential for the spread of invasive weeds during the construction and operation phase. This potential will be addressed within the EMP and could provide the opportunity to enhance the quality of the environment utilised by the koala by providing mitigation measures to combat introduced species. The eradication of ground-covering weeds could enhance local koala movement. Upon mitigation, the project is unlikely to result in the introduction of invasive species that are harmful to the koala.</p>

Significant residual impact criteria	Potential to occur
Introduce disease that may cause the population to decline	<p>Unlikely</p> <p>The project is not anticipated to introduce new diseases that may cause the species to decline. Stress may lead to an increase in the expression of chlamydia in koalas; however, the implementation of mitigation measure such as sequential clearing, site speed limits, use of experienced spotter-catchers during clearing and the requirement to allow koalas to self-disperse will reduce disturbance-related stress and risk of disease. Additionally, the species is susceptible to <i>Phytophthora cinnamomi</i> due the soil fungus's ability to infect <i>Eucalyptus</i> species. Biosecurity requirements (e.g. weed and seed declarations) will be implemented for the project, and thus, this risk has been assessed as low.</p>
Interfere with the recovery of the species	<p>Unlikely</p> <p>The project is expected to be relatively benign with no substantial long-term increase in mortality or any substantial barrier effects due to loss of habitat connectivity. All impacts are expected to be localised. Impacts along the Northern Section pipeline alignment are expected to be consistent with existing levels of impact from habitat fragmentation and exposure to road noise and traffic. The risk of koala mortality of injury will be managed by the mitigation measures contained within the CEMP, and an experienced and suitably qualified fauna spotter-catcher will be employed during all clearing works. Accordingly, the project is unlikely to substantially interfere with the recovery of the species.</p>
Result in disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species	<p>Unlikely</p> <p>The project will require the clearing of 5.26 ha of potentially suitable foraging and breeding habitat for the koala. the Northern Section pipeline alignment has largely been placed within or adjacent to areas that have been historically cleared and retains predominately open landscapes, regrowth and isolated paddock trees. Given the project will result in a small loss of koala food trees (i.e. <i>Melaleuca</i>, <i>Eucalyptus</i>, <i>Corymbia</i> and <i>Acacia</i> species),, it is likely to result in disruption to ecologically significant koala feeding locations.</p>
Conclusion	<p>The project is unlikely to result in a significant residual impact on the koala. The Northern Section pipeline alignment has been largely placed within or adjacent to areas that have been previously cleared and will result in a small loss of 5.26 ha of suitable foraging habitat (.e. <i>Melaleuca</i>, <i>Eucalyptus</i>, <i>Corymbia</i> and <i>Acacia</i> species) and breeding habitat.</p>



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Legend

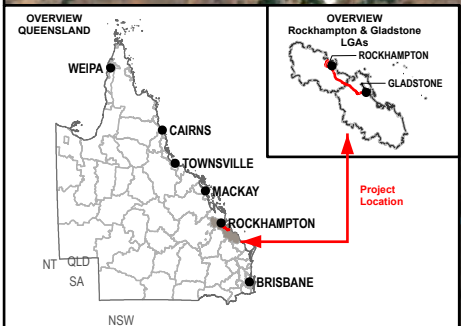
- Northern Section Pipeline Alignment
- Study Area
- Survey Photo Reference Number
- Predicted Koala Habitat
- Waterways

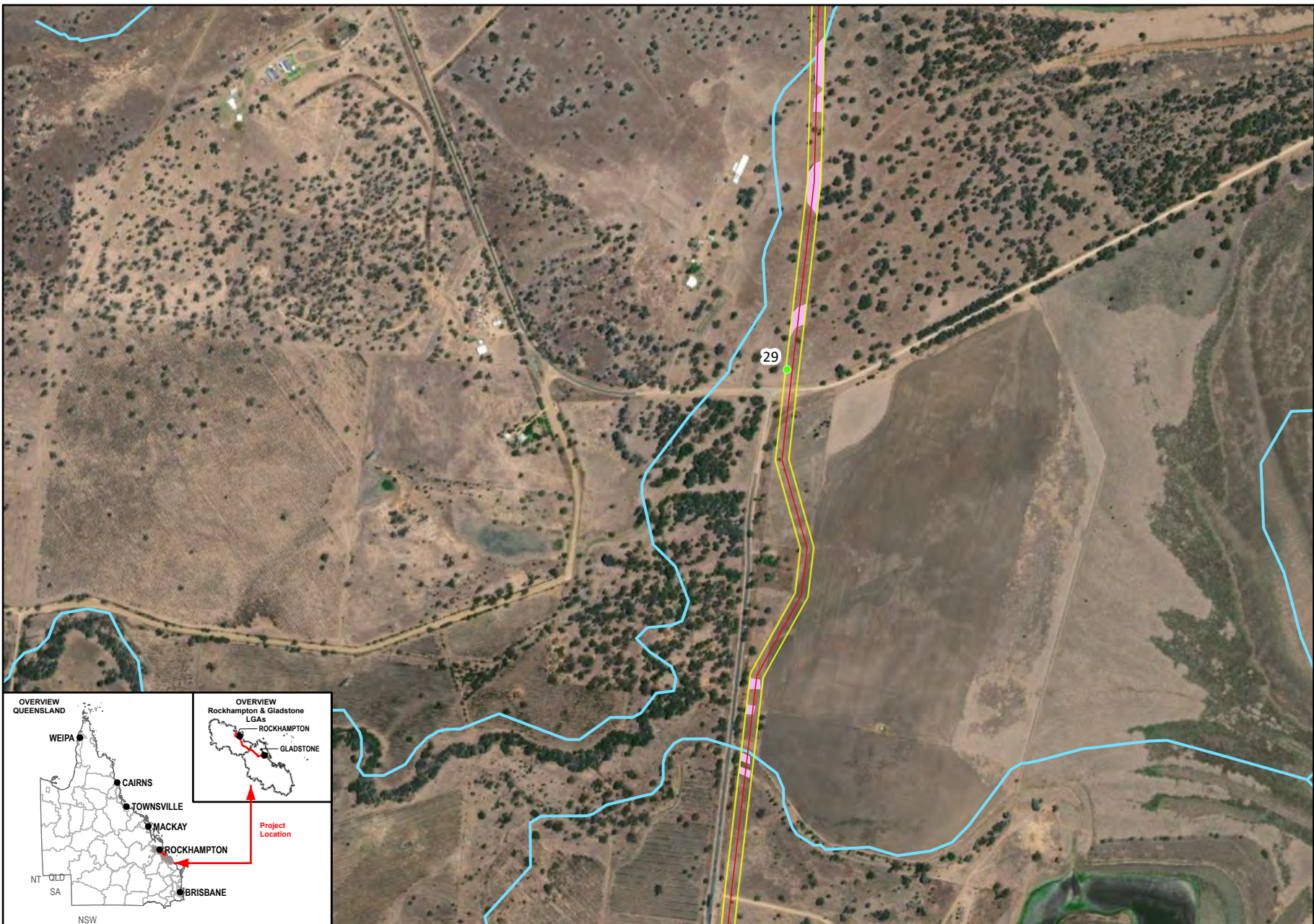
Data Sources:

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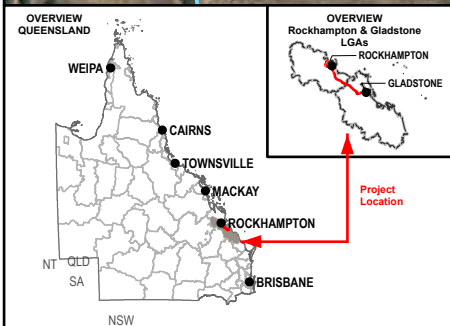
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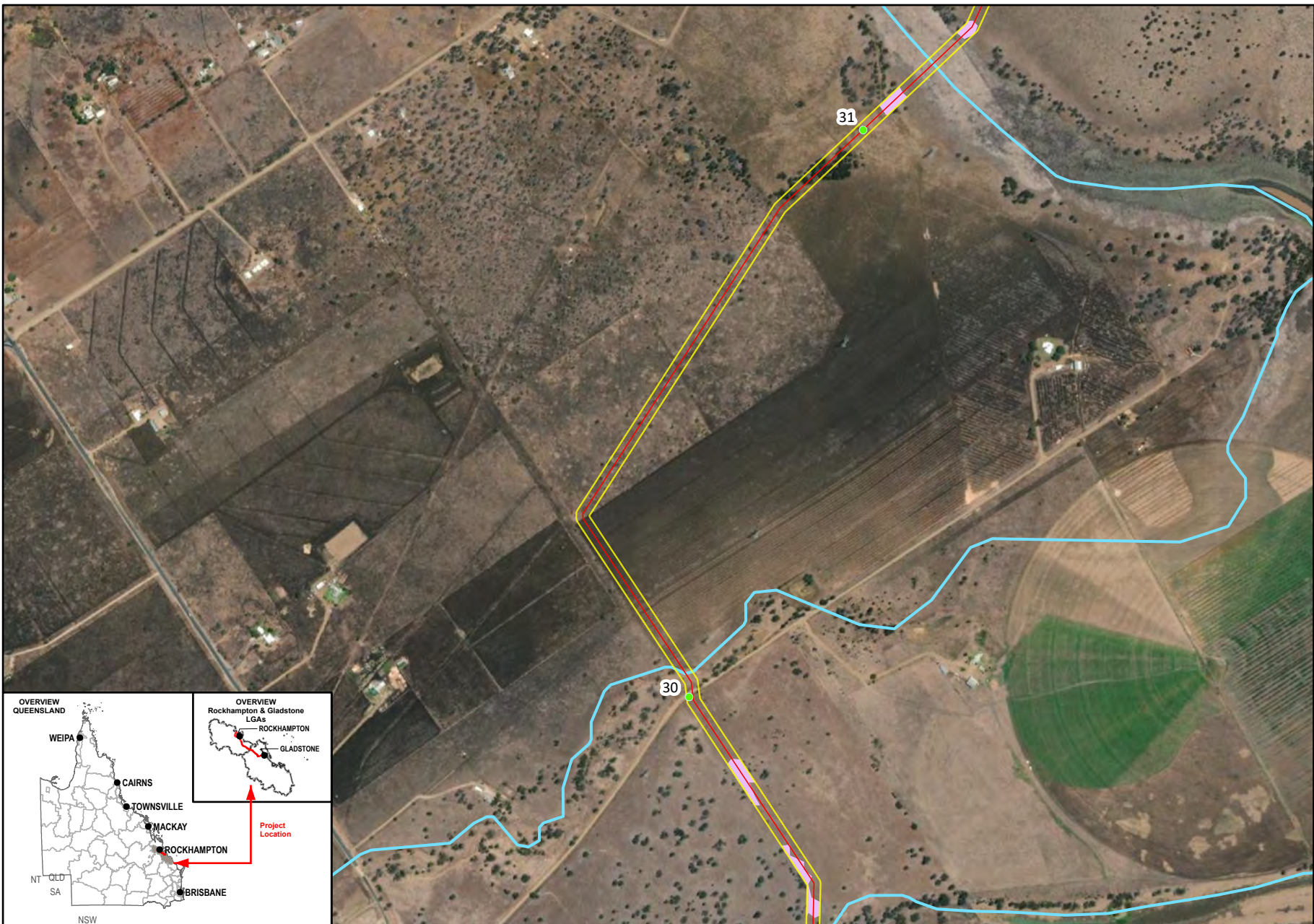
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- Northern Section Pipeline Alignment
- Study Area
- Survey Photo Reference Number
- Predicted Koala Habitat
- Waterways

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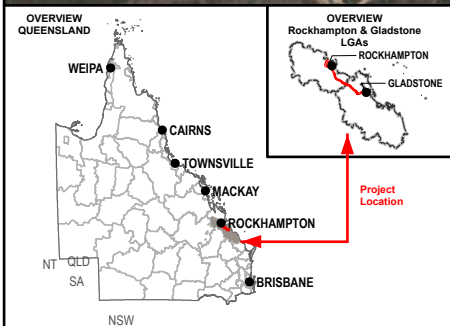




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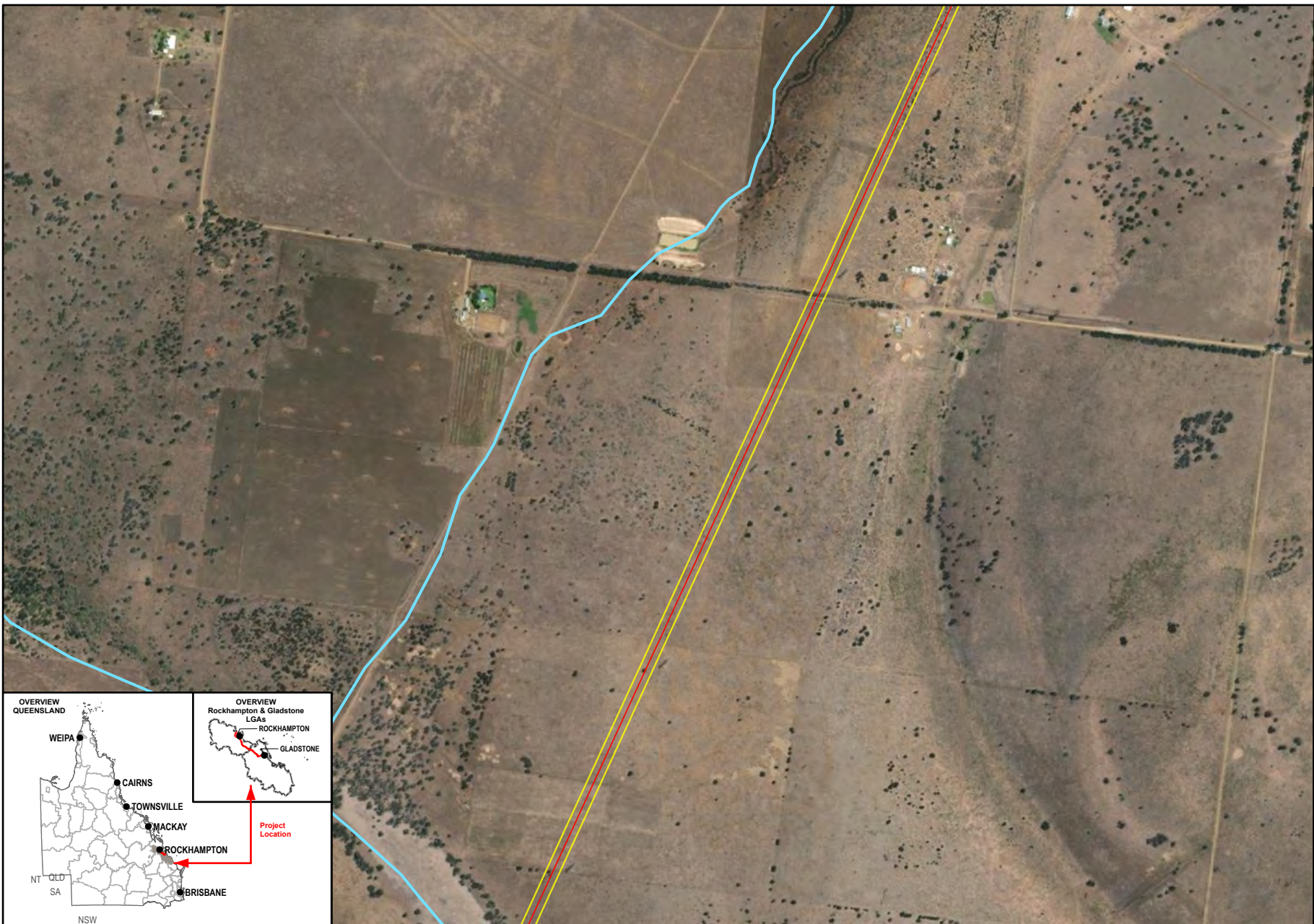
Legend

- Northern Section Pipeline Alignment
- Study Area
- Survey Photo Reference Number
- Predicted Koala Habitat
- Waterways



Data Sources:
 1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
 2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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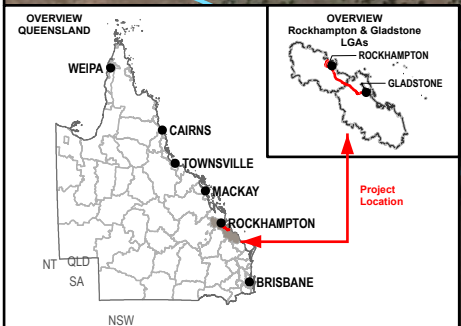
- Northern Section Pipeline Alignment
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- Waterways

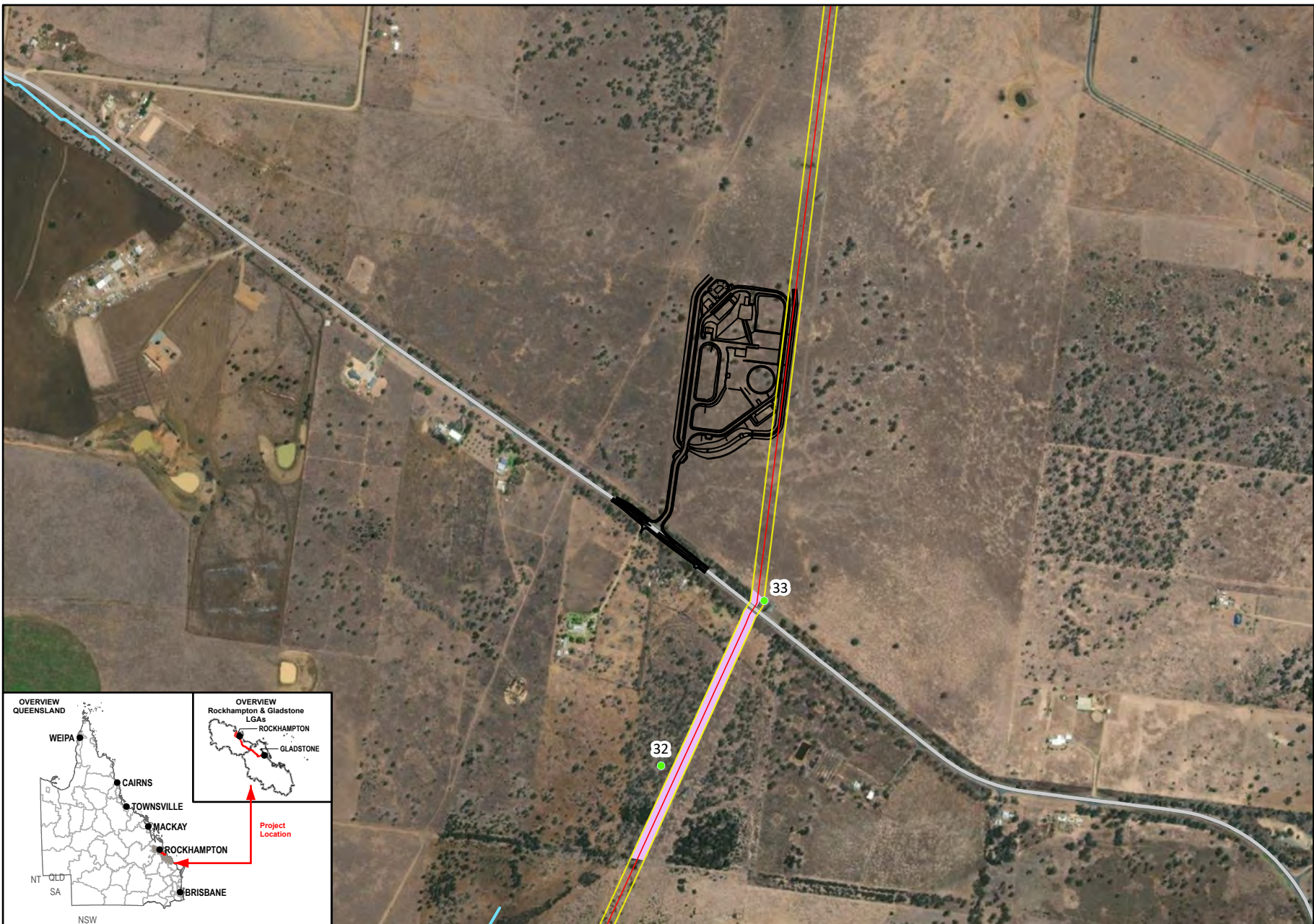
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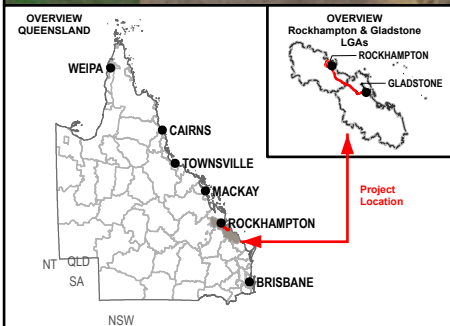
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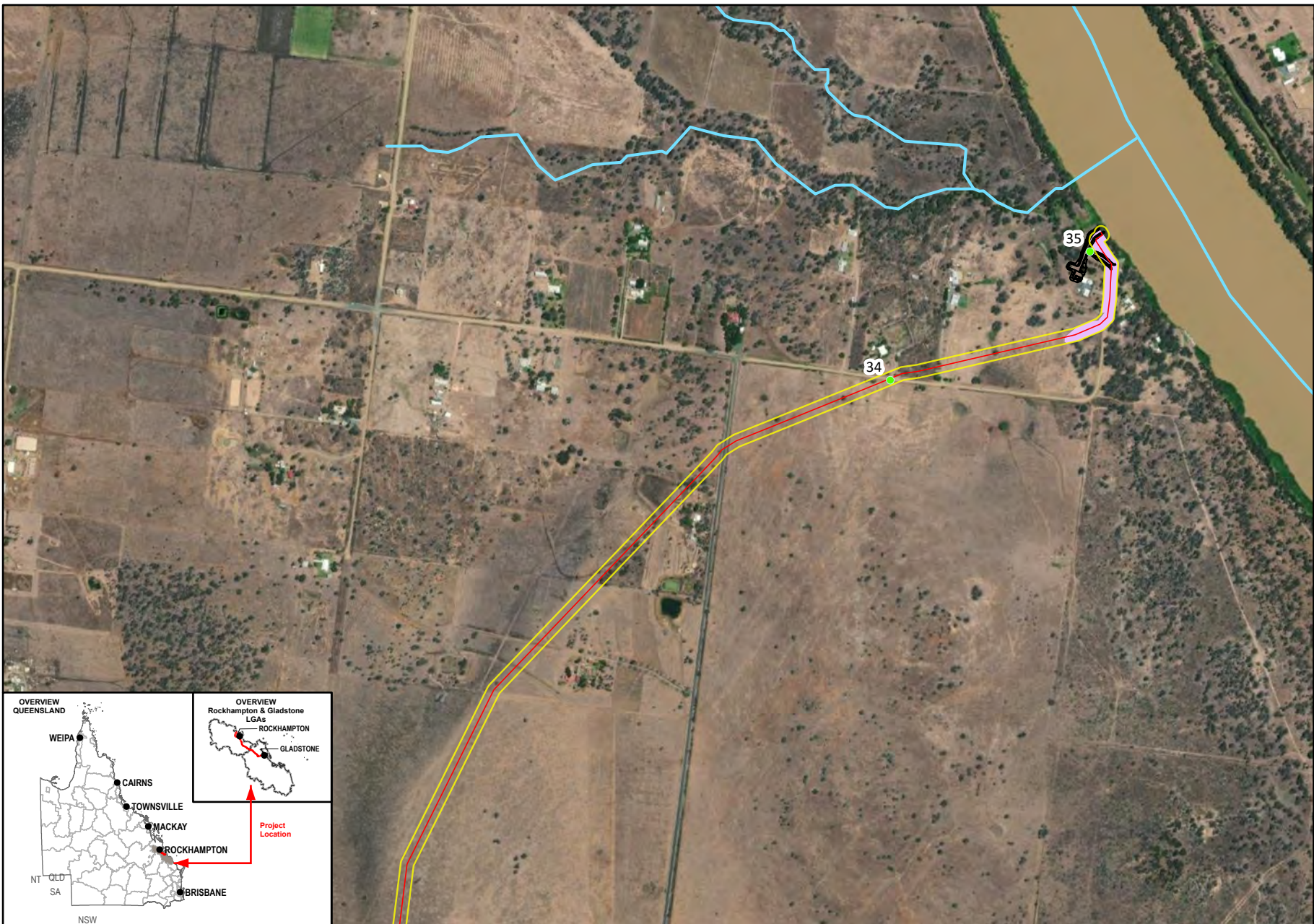
- Legend**
- Northern Section Pipeline Alignment
 - Study Area
 - Survey Photo Reference Number
 - Predicted Koala Habitat
 - Alton Down WTP, Pump Station and Reservoir Layout
 - Waterways
 - Main Roads

Data Sources:

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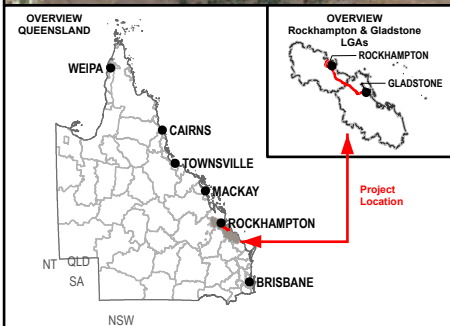
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- Legend**
- Northern Section Pipeline Alignment
 - Study Area
 - Survey Photo Reference Number
 - Predicted Koala Habitat
 - Fitzroy River Intake and Pump Station Layout
 - Waterways

Data Sources:

1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
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7.3.1.4 Australian painted snipe

Conservation status and species ecology

The Australian painted snipe is listed as endangered under the EPBC Act and NC Act and was listed as an MNES at the time of the approval. The Australian painted snipe is recorded in wetlands in all states of Australia. The most common occurrence is eastern Australia, scattered through much of Queensland, NSW, Victoria and south-eastern South Australia (DoE 2022). They occur in shallow freshwater wetlands, both ephemeral and permanent, including lakes, swamps, inundated or waterlogged grassland/saltmarsh, dams, sewage farms and bore drains (DSEWPC 2013). Nests are often placed in a scrape in the ground and is either a shallow bowl shaped made of dry grass or other material or has scant lining (DoE 2022). These are often located in swamps, cane grass swamps, flooded areas, grazing lands, among cumbungi, sedges, grasses, saltwater couch, saltbush and grass. The diet of the Australian painted snipe consists of vegetation, seeds, insects, worms and molluscs, crustaceans and other invertebrates (DoE 2022).

Field survey results and distribution of suitable habitat

The Australian painted snipe was not recorded during the field surveys within the Northern Section study area. Survey effort for the Australian painted snipe included two bird surveys within suitable wetland habitats in the Northern Section study area. The species is considered likely to occur due to the presence of suitable habitat and the species has been historically recorded at four locations within the desktop search extent (10 km buffer). Suitable habitat for the species was recorded at freshwater waterbodies and seasonal wetlands within the Northern Section study area. The distribution of predicted Australian painted snipe habitat is mapped in Figure 7-24.

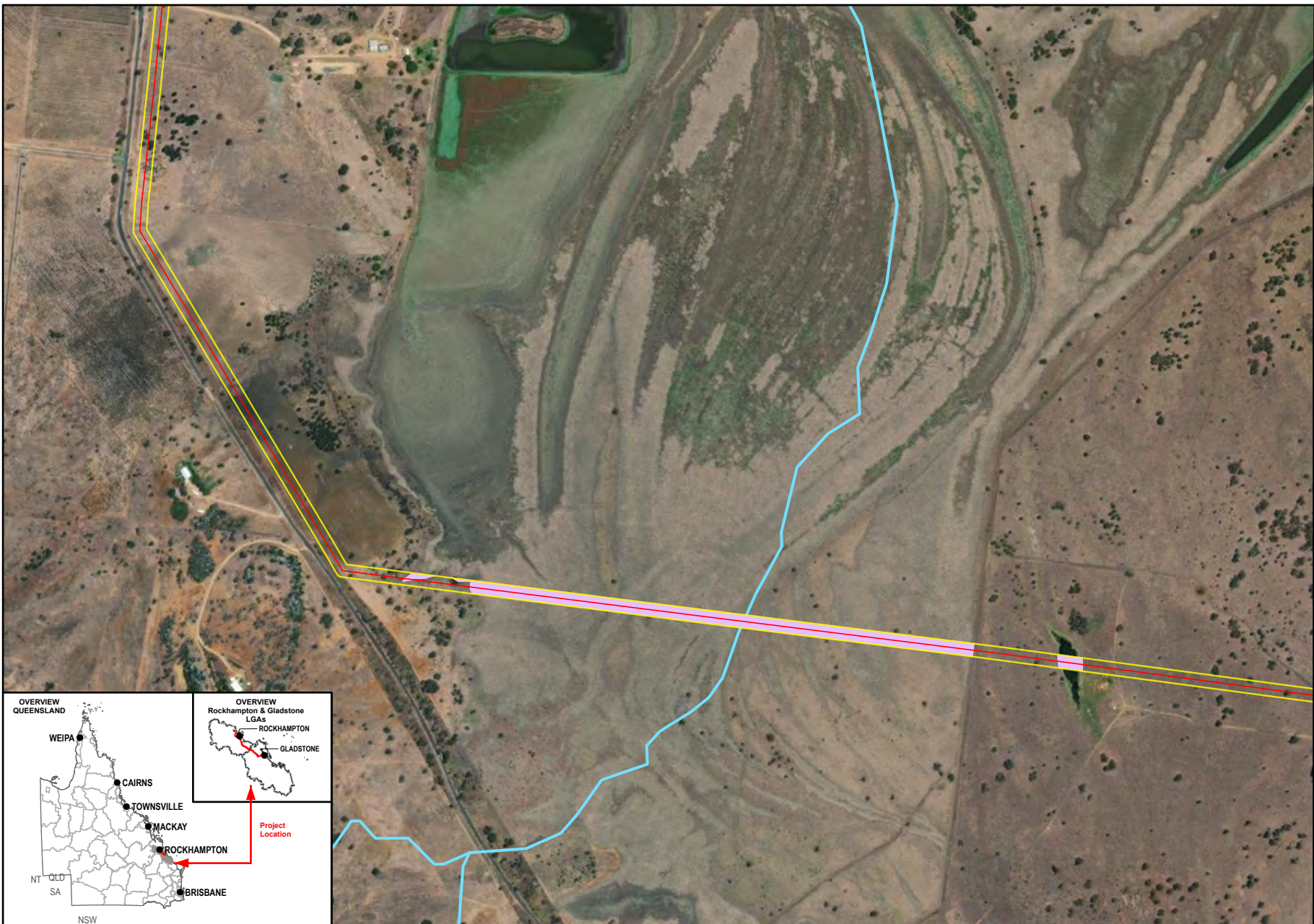
Significance of impact assessment

The project is considered unlikely to result in a significant residual impact on the Australian painted snipe. A significance of impact assessment of the project on the Australian painted snipe (endangered under the EPBC Act and NC Act) is provided in Table 7-44.

Table 7-44 Significance of impact on the Australian painted snipe

Significant residual impact criteria	Potential to occur
A long-term decrease in the size of a local population	Unlikely The Australian painted snipe is not considered to have a limited geographic distribution as it occurs within suitable habitat in all states and territories, although the Murray Darling Basin is considered a stronghold. There are no records for the species directly within Northern Section pipeline alignment; however, there are records within the greater Gladstone and Rockhampton region. Given the irregularity of records, there does not appear to be a resident local population and individuals sighted are likely transient. As such, the removal of 4.53 ha of potential habitat identified within the disturbance footprint is highly unlikely to lead to a long-term decrease in the size of the species' population.
Reduce the extent of occurrence of the species	Unlikely Occurrence of the species within the Northern Section pipeline alignment has not been recorded; however, records in the greater area are variable temporally and spatially. The species has irregular movements almost continent wide, and individuals likely access suitable foraging habitat based on availability. As such, the removal of 4.53 ha of potential habitat is unlikely to reduce the extent of occurrence of the species. Although the removal of habitat may marginally reduce availability of resources at a local scale, the habitat impacted by the project is not considered likely to reduce the extent of occurrence of the species within the greater landscape or subregion.
Fragment an existing population	Unlikely A maximum width of 30 m will be cleared for construction of the Northern Section pipeline alignment, with 20 m to be rehabilitated after the pipeline has been installed and buried. As the Northern Section pipeline alignment is narrow and linear and the Australian painted snipe is highly mobile, the project is unlikely to fragment the Australian painted snipe population.

Significant residual impact criteria	Potential to occur
Result in genetically distinct populations forming as a result of habitat isolation	<p>Unlikely</p> <p>The species' capacity to move locally and regionally is unlikely to be limited by any localised land clearing necessary to construct the Northern Section pipeline alignment. As a result, the project is not considered to cause any loss of gene transfer that would cause genetically distinct populations to form.</p>
Result in invasive species that are harmful to an endangered species becoming established in the endangered species' habitat	<p>Unlikely</p> <p>Numerous invasive weeds and pasture grasses are currently well established within the Northern Section pipeline alignment. Implementation of a site-specific Weed and Pest Management Plan will reduce the risk of further weed spread. Therefore, the project is unlikely to result in the establishment of novel invasive species affecting Australian painted snipe habitat.</p>
Introduce disease that may cause the population to decline	<p>Unlikely</p> <p>Disease is not listed as a potential threat to the species. The project is unlikely to introduce a disease that may cause the species to decline.</p>
Interfere with the recovery of the species	<p>Unlikely</p> <p>Noting the above points relating to very limited if any effects on local populations (e.g. declines), extent of occurrence, fragmentation, invasive species, and disease, the project is not considered likely to interfere with the recovery of the Australian painted snipe.</p>
Result in disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species	<p>Unlikely</p> <p>While disturbance to individuals may be experienced during construction, this disturbance will be short-term such that no impact on the lifecycle of this species is anticipated. Furthermore, any disturbance during construction will be highly localised and therefore unlikely to impact ecologically significant locations of a species. This conclusion is based on the small extent of the proposed impact. Similarly, owing to the narrow clearing extent, food resources in the local landscape for the species' is unlikely to be substantially reduced and movement patterns are not anticipated to be impacted as there will be no functional disruption in habitat connectivity.</p>
Conclusion	<p>The project is unlikely to result in a significant residual impact on the Australian painted snipe. The project will result in a loss (4.53 ha) of potentially suitable foraging habitat for the Australian painted snipe; however, due to the narrow clearing extent, food resources in the local landscape for the species are unlikely to be substantially reduced and movement patterns are not anticipated to be impacted as there will be no functional disruption in habitat connectivity.</p>



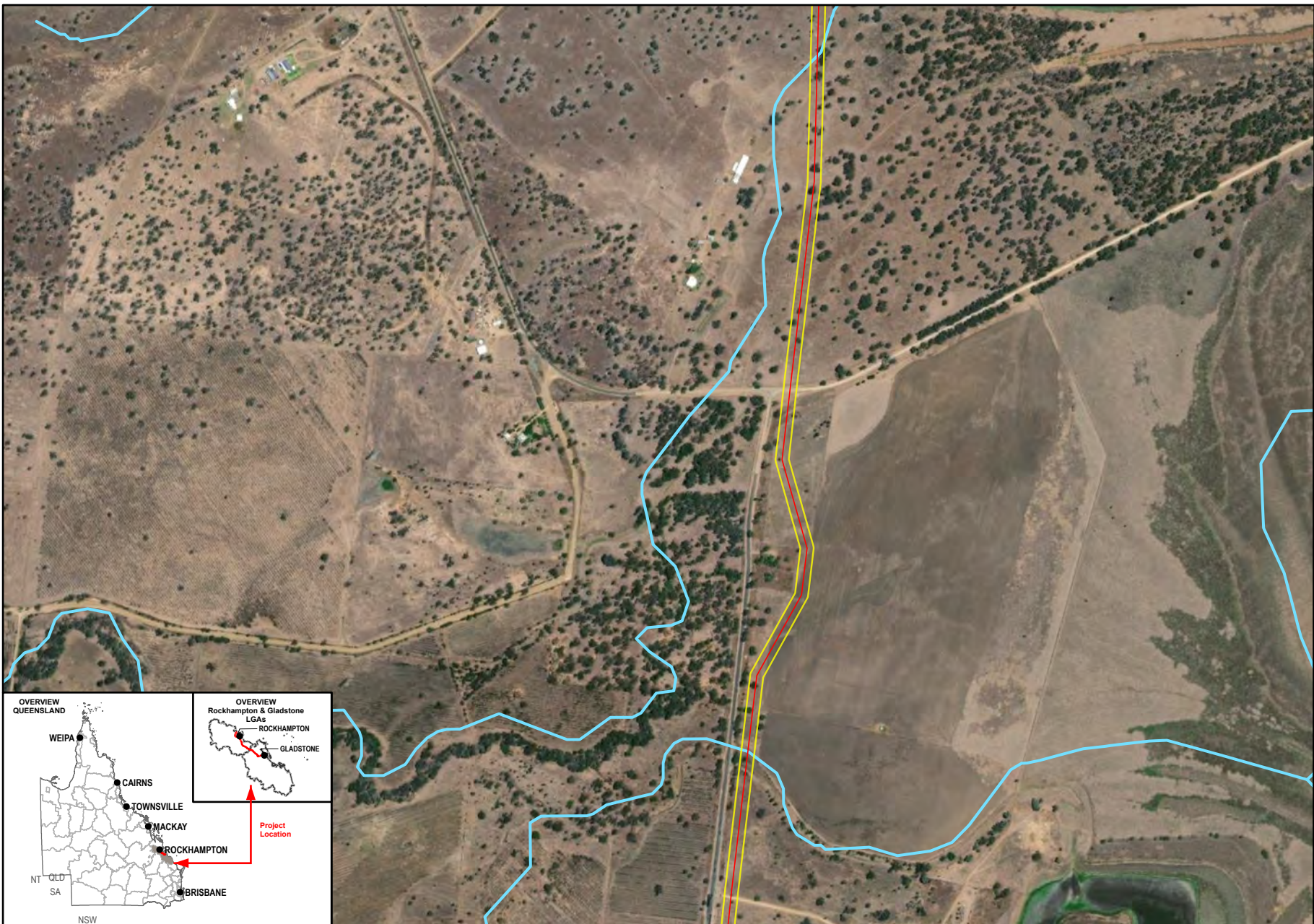
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Legend

- Northern Section Pipeline Alignment
- Study Area
- Predicted Australian Painted Snipe Habitat
- Waterways

Data Sources:
 1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
 2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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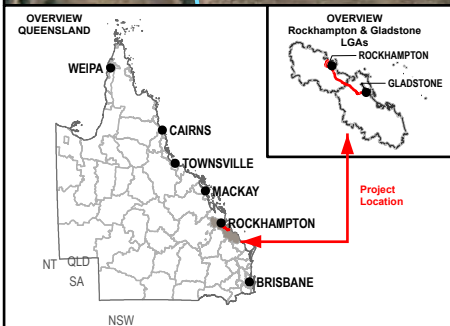
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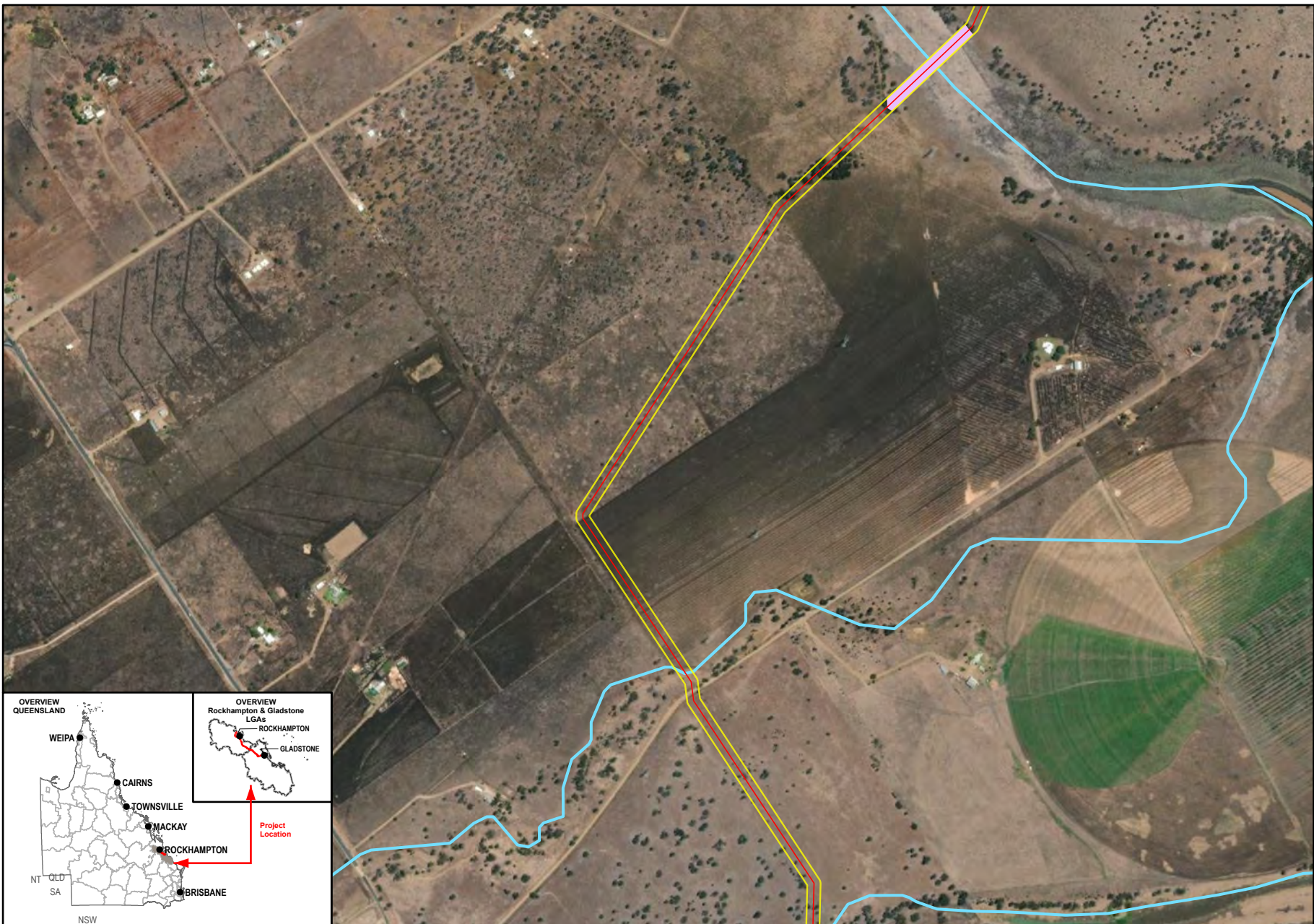
- Legend**
- Northern Section Pipeline Alignment
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 - Waterways

Data Sources:

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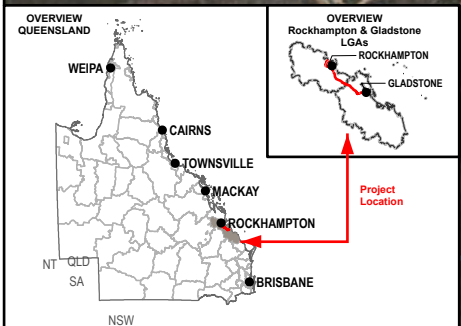




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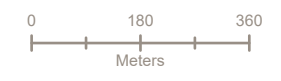
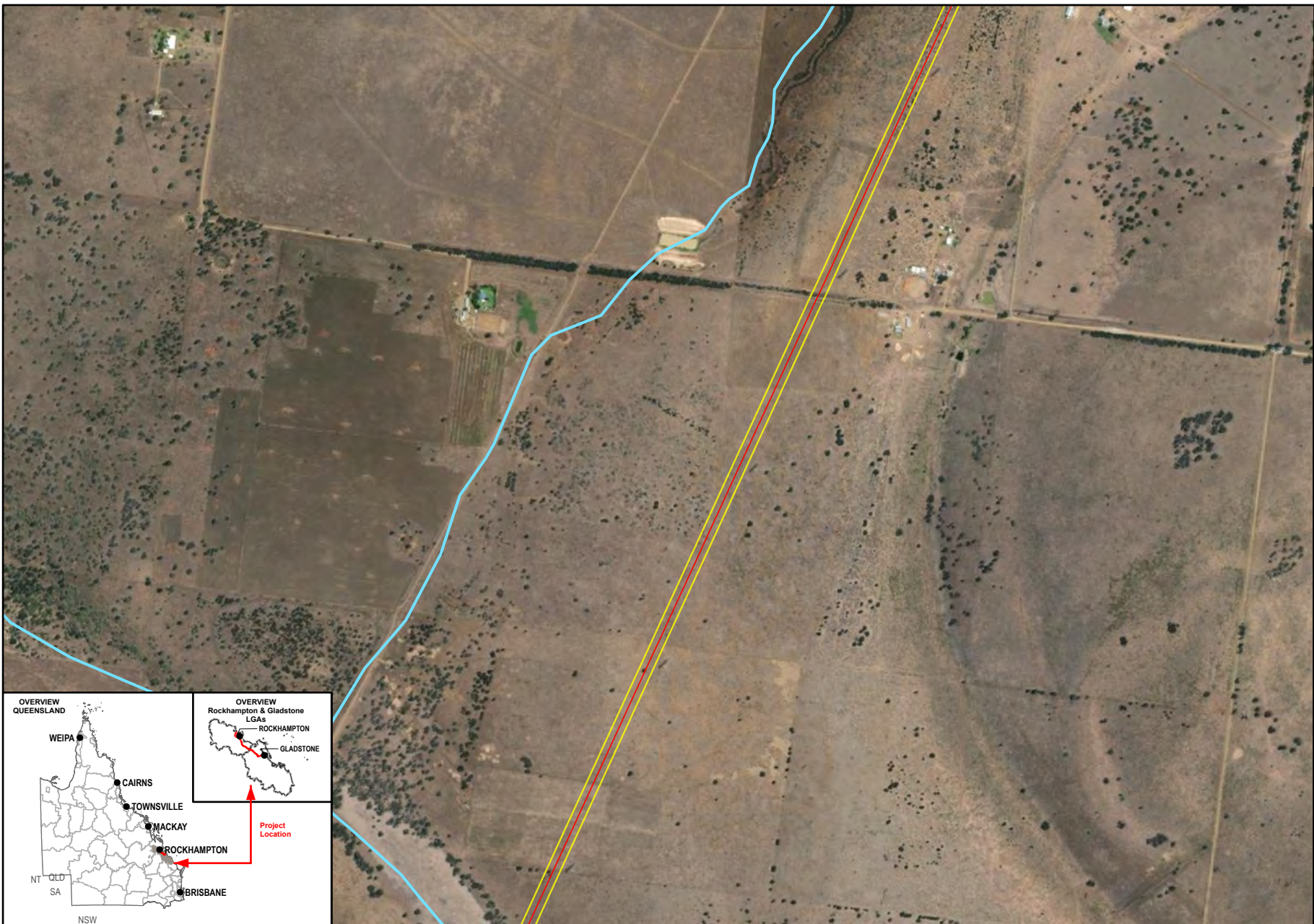
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- Northern Section Pipeline Alignment
- Study Area
- Predicted Australian Painted Snipe Habitat
- Waterways



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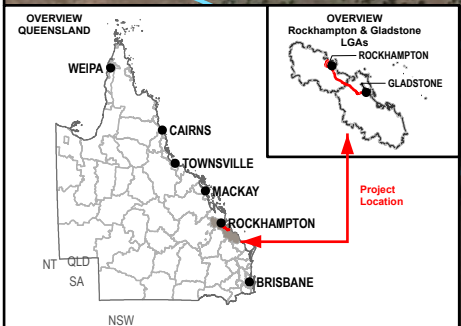
- Northern Section Pipeline Alignment
- Study Area
- Waterways

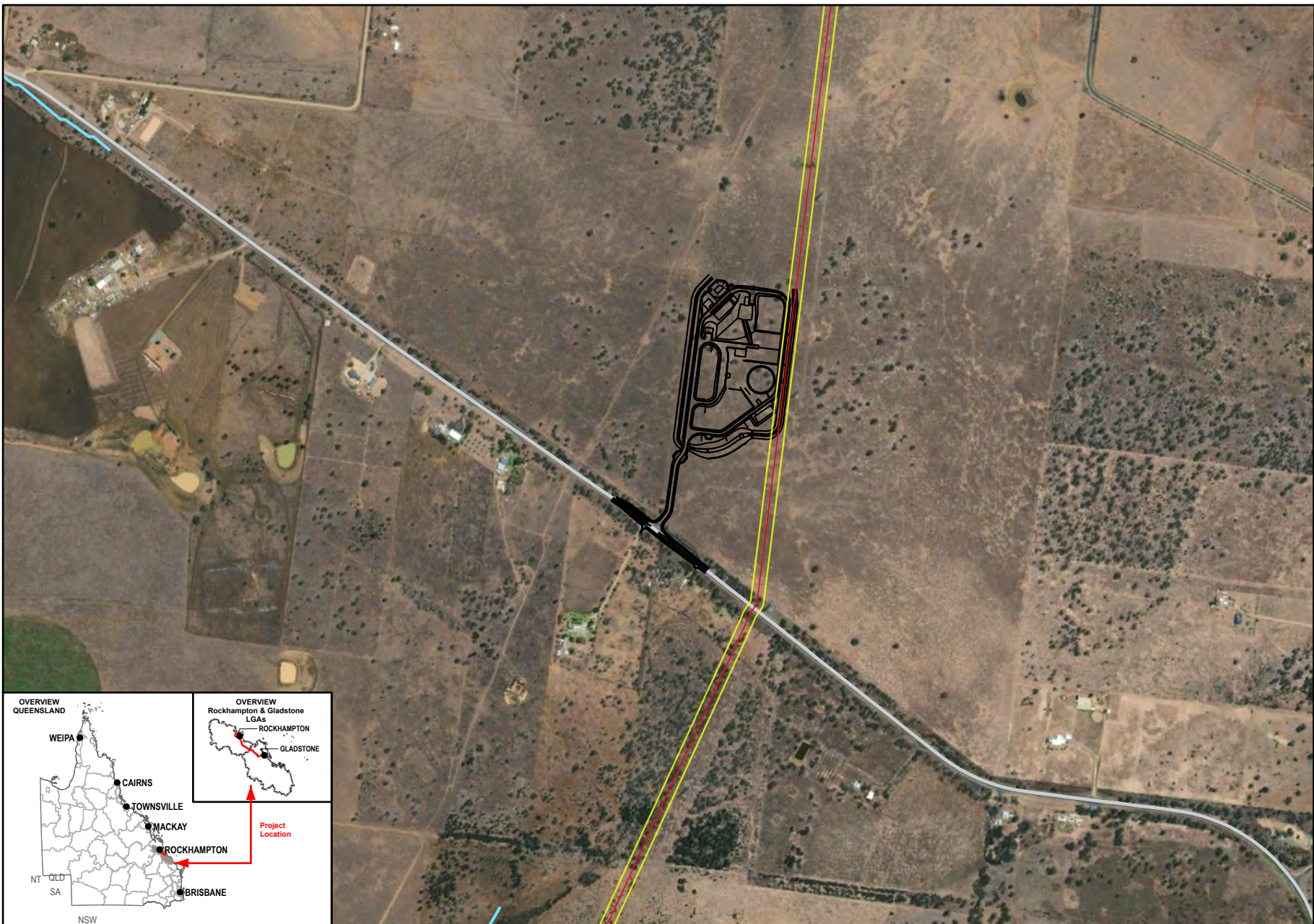
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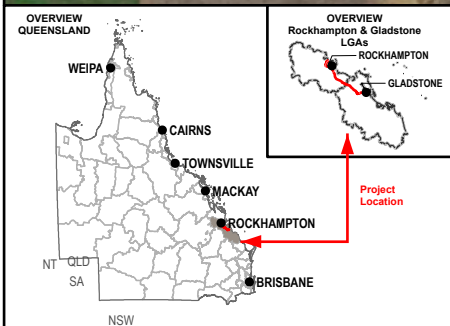
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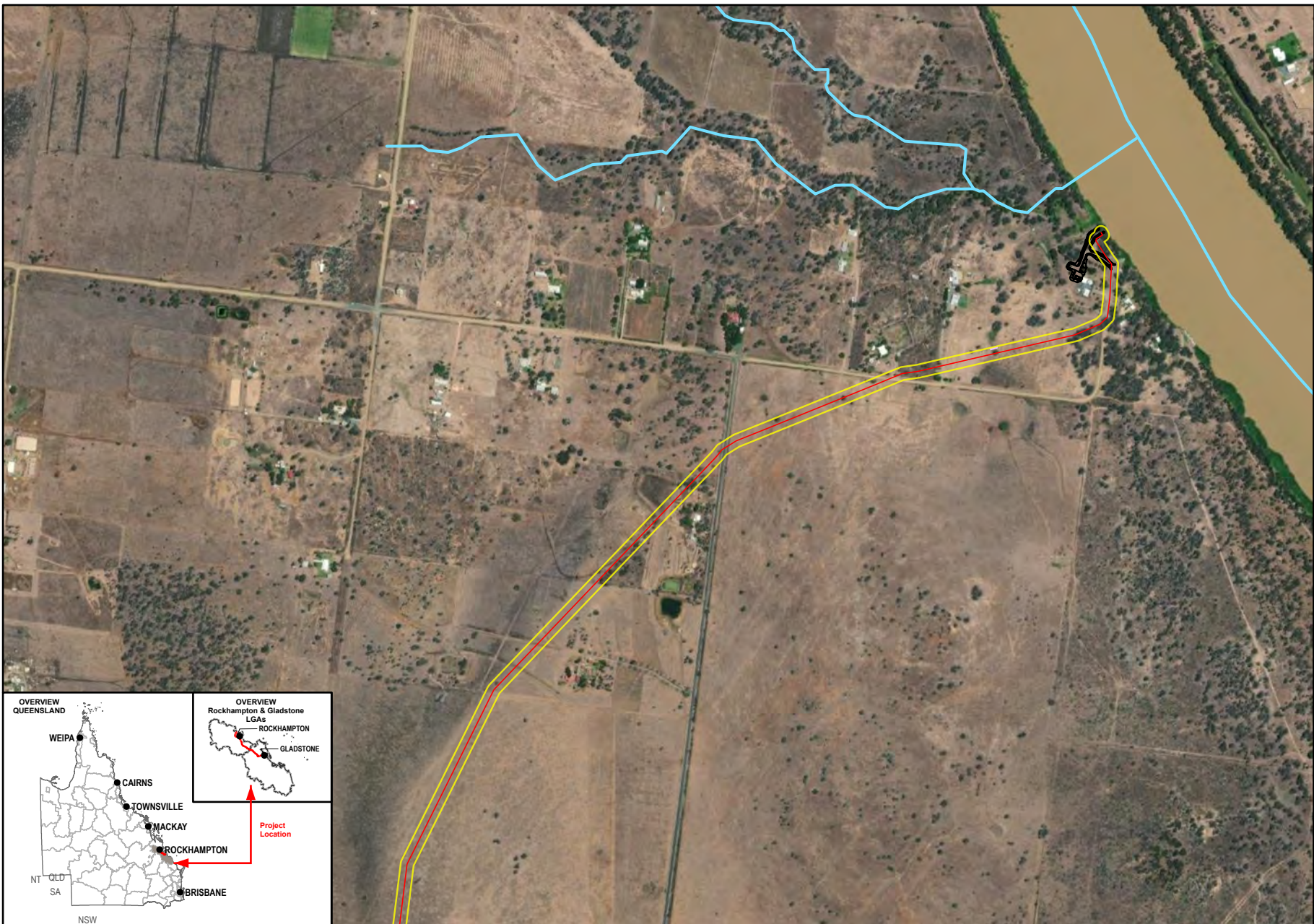
- Legend**
- Northern Section Pipeline Alignment
 - Study Area
 - Alton Down WTP, Pump Station and Reservoir Layout
 - Waterways
 - Main Roads

Data Sources:

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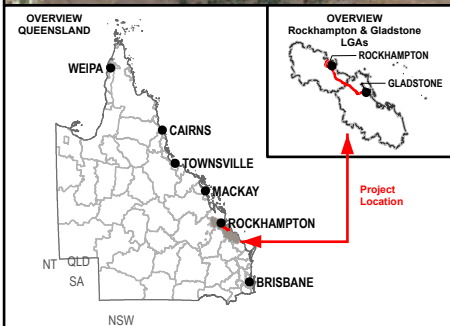
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- Legend**
- Northern Section Pipeline Alignment
 - Study Area
 - Predicted Australian Painted Snipe Habitat
 - Fitzroy River Intake and Pump Station Layout
 - Waterways



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7.3.1.5 Estuarine crocodile

Conservation status and species ecology

The estuarine crocodile is listed as marine and migratory under the EPBC Act and vulnerable under the NC Act. The species is found in a wide range of habitats including rivers, estuaries, creeks, swamps, lagoons, and billabongs. Within Queensland, the distribution of the estuarine crocodiles generally extends from Gladstone in the south through to the Cape York Peninsula in the north and across to the border with the Northern Territory in the west. Individual estuarine crocodiles have historically been observed as far south as the New South Wales border, with occasional contemporary records in the Mary River catchment. This species is limited in their upstream movement primarily by physical barriers such as escarpments and instream water infrastructure such as dams and weirs (Cogger 2000).

Field survey results and distribution of suitable habitat

The estuarine crocodile or species habitat was predicted likely to occur within the Northern Section area by the DCCEE PMST results (DCCEE 2022c). Optimal habitat occurs within Site 23 on the Fitzroy River (Figure 7-25), with a wide and large river system with a range of habitat types including resting banks and large deep waters. The species is known to occur throughout mid and lower reaches of the Fitzroy River (ALA 2022), which includes this site and therefore the species is likely to occur at this location. However, the absence of surface water in close proximity to the locations at sites 22, 25, 31, and 32 provides habitat that is unsuitable to support the presence of estuarine crocodiles or provide nesting habitats and therefore the species is unlikely to occur at these locations.

Significant Residual Impact Assessment

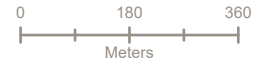
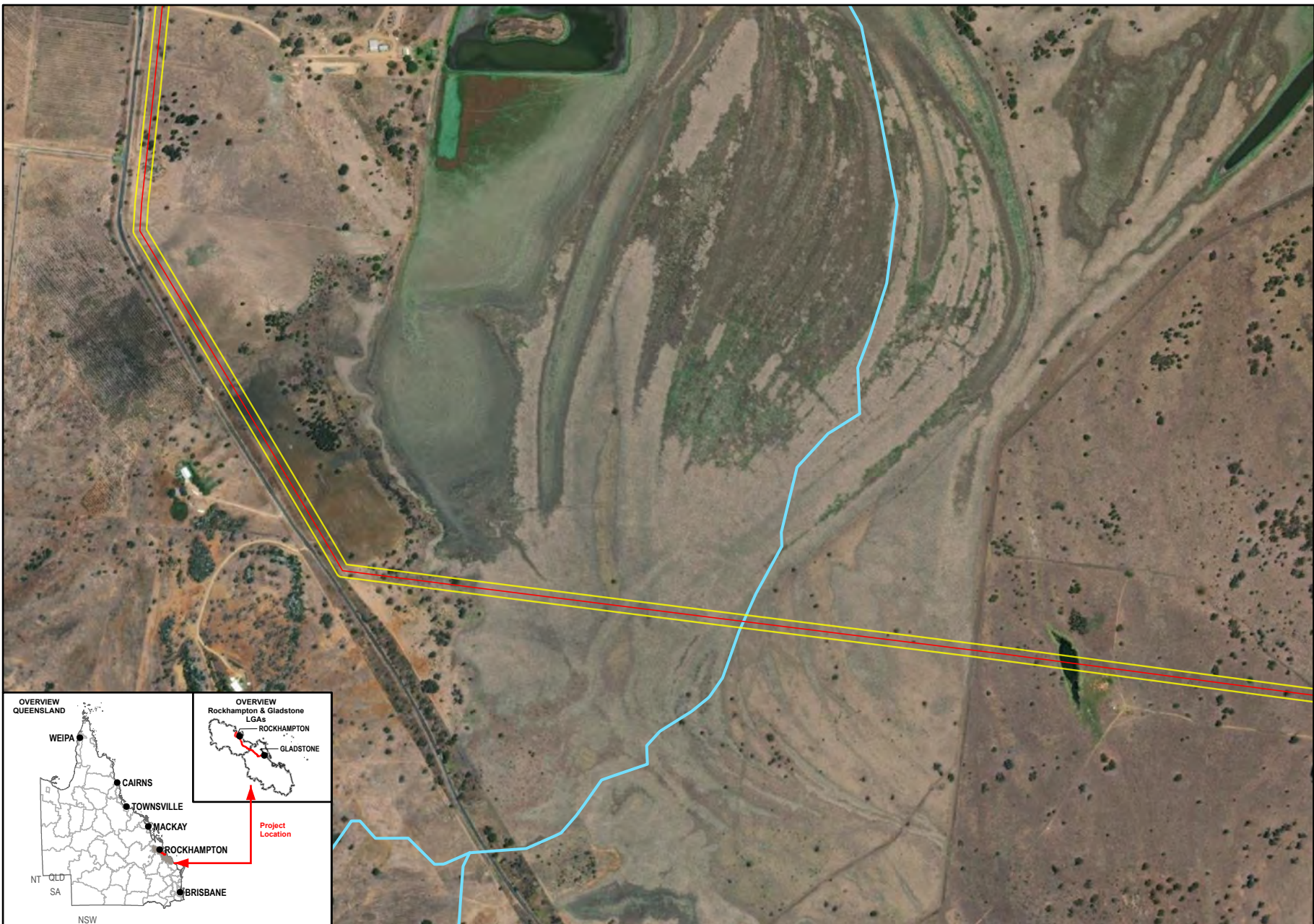
The project is unlikely to have a significant residual impact on the estuarine crocodile due to the temporary nature of the works and restoration of potential nesting banks after construction. A significance of impact assessment of the project on the estuarine crocodile (migratory EPBC Act, vulnerable NC Act) is provided in Table 7-45.

Table 7-45 Significance of impact on the estuarine crocodile

Significant residual impact criteria	Assessment
A long-term decrease in the size of a local population	<p>Unlikely</p> <p>The estuarine crocodile is found in a wide range of habitats including rivers, estuaries, creeks, swamps, lagoons and billabongs. Within Queensland, the distribution of the estuarine crocodiles generally extends from Gladstone in the south through to the Cape York Peninsula in the north and across to the border with the Northern Territory in the west. This species is limited in their upstream movement primarily by physical barriers such as escarpments and instream water infrastructure such as dams and weirs (Cogger 2000).</p> <p>The estuarine crocodile or species habitat was predicted to occur within the study area by the PMST results. The species is known to occur throughout the Fitzroy River (ALA 2022), including near site 23 which provides optimal foraging habitat and potential nesting habitat. At sites 22, 25, 31, and 32, the species is unlikely to occur due to a lack of available surface water. Works will be conducted at sites 22, 25, 31, and 32 during the dry season.</p> <p>Works at site 23 include the intake structure which will involve the localised disturbance of the bed and bank. A coffer dam or similar structure is proposed to be installed around the footprint of the intake structure works to create a dry works area. Fauna salvage will be undertaken within the construction area in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrainment, minimising potential effects of the local population of the estuarine crocodile.</p> <p>Design and implementation of a CEMP will further minimise risk to individual estuarine crocodile and achieve protection of habitat, such that no long-term decrease in the size of the population is expected to occur.</p> <p>The impact area for all sites will be rehabilitated and additional measures will be implemented in both the construction and operation phases of the intake structure as site 23 to minimise effects to localised disturbance of habitat degradation.</p>

Significant residual impact criteria	Assessment
	<p>No direct impacts to individuals upon a known population of estuarine crocodile within the Fitzroy River will occur. It is therefore unlikely to lead to a long-term decrease in the size of a local population.</p>
<p>Reduce the extent of occurrence of the species</p>	<p>Unlikely</p> <p>The estuarine crocodile or species habitat was predicted to occur within the study area by the PMST results. At sites 22, 25, 31, and 32, the species is unlikely to occur due to the ephemeral nature of the sites and a lack of available surface water. Works will be conducted at sites 22, 25, 31, and 32 during the dry season, therefore not effecting the extent of occurrence of the species.</p> <p>The species is known to occur throughout the Fitzroy River (ALA 2022), including near site 23 and the site provides optimal foraging habitat and potentially suitable nesting habitat. A coffer dam or similar structure is proposed to be installed around the footprint of the intake structure works to create a dry works area. Fauna salvage will be undertaken within the construction area in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required. Flow and movement outside of the construction area will be maintained throughout construction.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrainment, minimising potential effects of the local population of the estuarine crocodile. The works will be restricted temporally to a small, localised area, with measures in place to ensure no long-term impacts to habitat.</p> <p>The population of estuarine crocodile will be maintained within, upstream and downstream of the pipeline intake location and therefore it is unlikely that a reduction of the extent of occurrence of the species will occur.</p>
<p>Fragment an existing population</p>	<p>Unlikely</p> <p>At sites 22, 25, 31, and 32, the species is unlikely to occur due to a lack of available surface water and no fragmentation of the population will occur.</p> <p>The species is known to occur throughout the Fitzroy River (ALA 2022), including near site 23 and the site provides optimal foraging habitat and potentially suitable nesting habitat. A coffer dam or similar structure is proposed to be installed around the footprint of the intake structure works to create a dry works area. Fauna salvage will be undertaken within the construction area in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Works will be undertaken in accordance with DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018) to avoid significant impact on flow and fauna movement.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrainment, minimising potential effects of the local population of the estuarine crocodile. The works will be restricted temporally to a small, localised area, with measures in place to ensure fragmentation of the species does not occur.</p> <p>These measures will ensure that no fragmentation of the population will occur.</p>
<p>Result in genetically distinct populations forming as a result of habitat isolation</p>	<p>Unlikely</p> <p>The project is unlikely to fragment the species population and therefore is not considered to result in genetically distinct populations forming as a result of habitat isolation.</p>
<p>Result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species habitat</p>	<p>Unlikely</p> <p>Introduced fish species in the Fitzroy River and surrounding waterways are not likely to be a key threatening process to the estuarine crocodile. The implementation of the CEMP and a Weed and Pest Management Plan will reduce the risk of introducing new invasive species or spreading existing weeds within the river. As such the project is not expected to result in the establishment of invasive species in crocodile habitat.</p>
<p>Introduce disease that may cause the population to decline</p>	<p>Unlikely</p> <p>There are no known diseases that this species is susceptible to or threatened by that proposed works have the potential to introduce. Therefore, it is considered unlikely that construction and operation of the intake structure and the waterway crossings will have the potential to introduce disease to the extent that the estuarine crocodile population will decline.</p>

Significant residual impact criteria	Assessment
Interfere with the recovery of the species	<p>Unlikely</p> <p>Habitat destruction and illegal harvesting are the major threats to the species (DAWE, 2022d). Threat abatement and recovery of the estuarine crocodile is focused on the sustainable harvesting of the species and the management of marine waters (DAWE, 2022d).</p> <p>Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required.</p> <p>Design and implementation of a CEMP will further minimise risk to individual estuarine crocodile and achieve protection of habitat, such that no long-term decrease in the size of the population is expected to occur.</p> <p>These measures will ensure that the project is unlikely to contribute to key threatening processes or interfere with recovery actions.</p>
Result in disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species	<p>Unlikely</p> <p>At sites 22, 25, 31, and 32, the species is unlikely to occur due to a lack of available surface water. With no population existing within these sites, the project is not expected to cause disruption to ecologically significant locations of a species.</p> <p>The species is known to occur throughout the Fitzroy River (ALA 2022), including near site 23 and the site provides optimal foraging habitat and potentially suitable nesting habitat. The works will be restricted to a small, localised area around the site. The duration of works will be less than 180 days and will be restricted to avoid construction during the active season of the species during the wet season. Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required.</p> <p>Works at this location will ensure that crocodiles cannot enter the construction zone whilst installation of the intake structure occurs. Water extraction rates will be monitored to avoid habitat degradation and maintain water quality with no impacts to crocodile or suitable habitat to occur during operation. These measures result that the project is unlikely to cause disruption to ecologically significant locations of a species.</p>
Conclusion	<p>Due to the temporary nature of the construction works and restoration of potential nesting banks, the project is not expected to have a significant residual impact on the estuarine crocodile.</p>



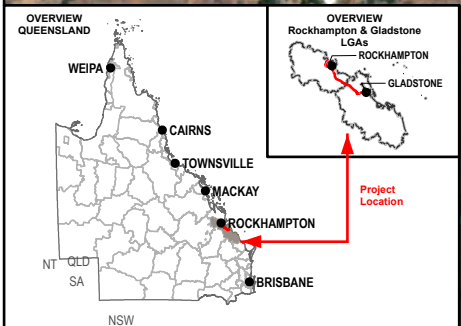
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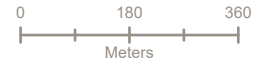
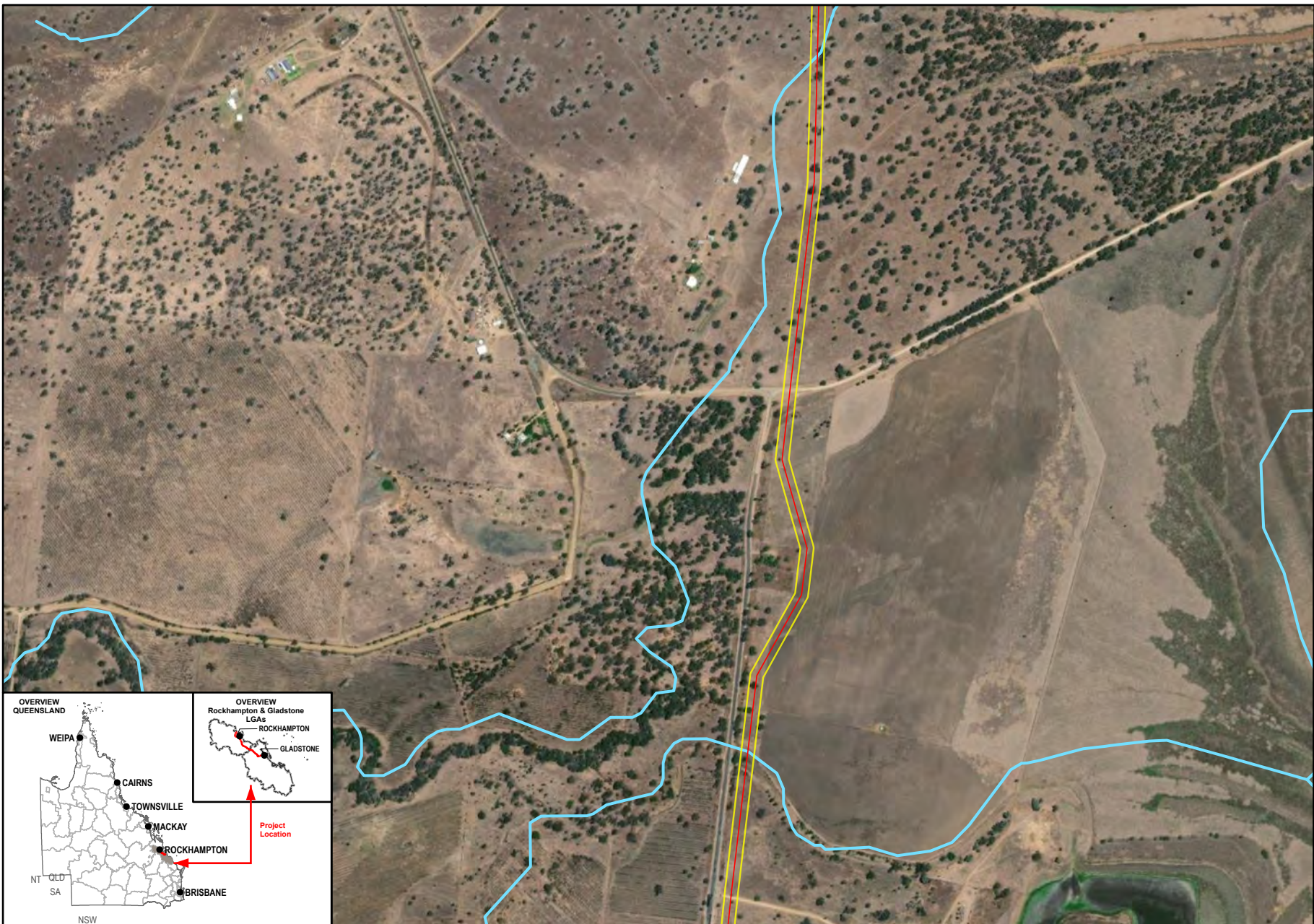
Legend

- Northern Section Pipeline Alignment
- Study Area
- Waterways

Data Sources:
 1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
 2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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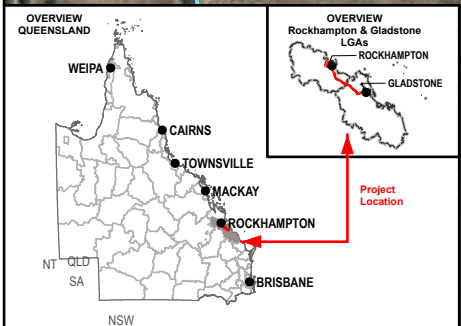
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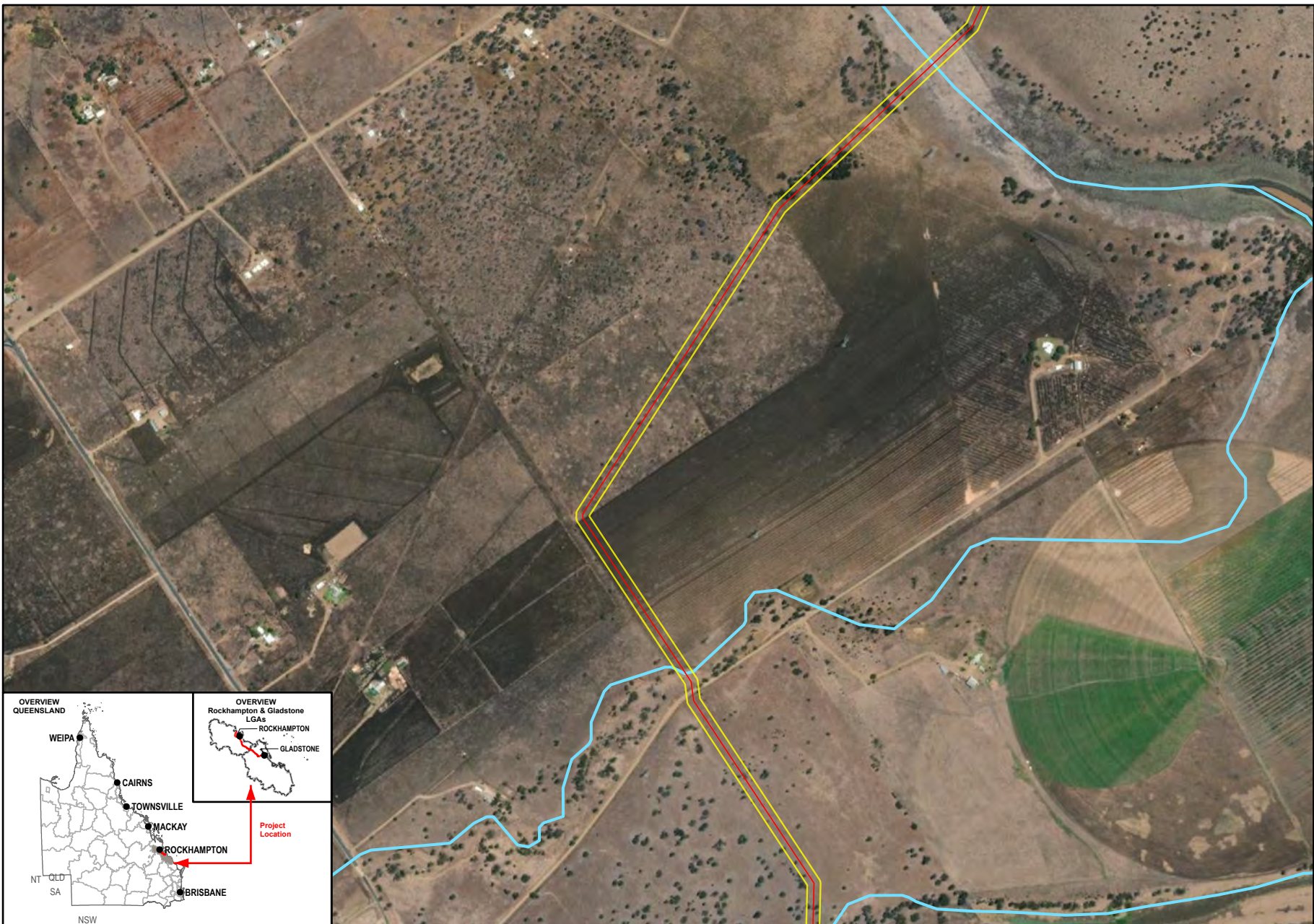
Legend




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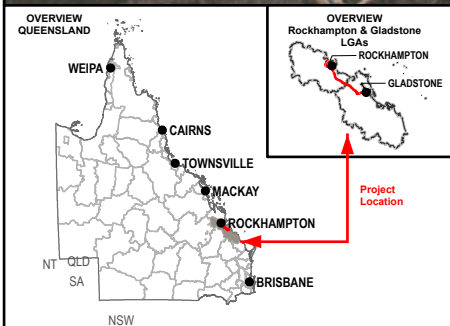





 
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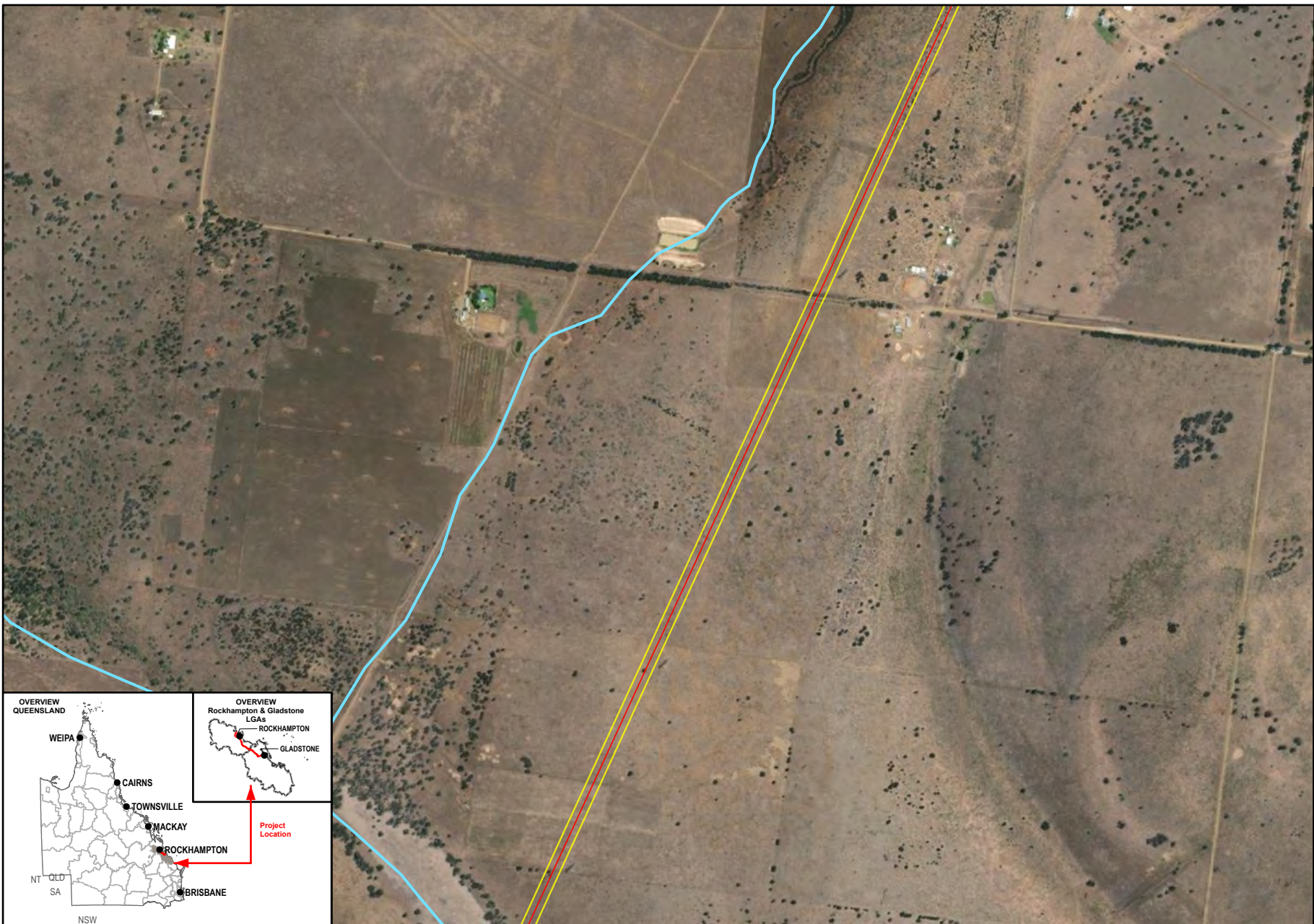
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- Waterways



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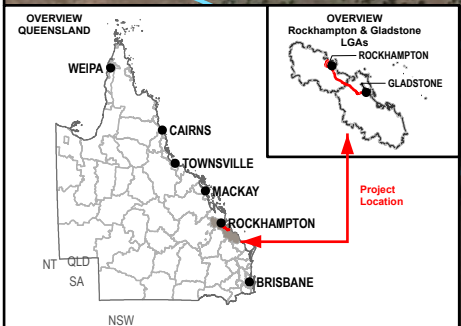
- Northern Section Pipeline Alignment
- Study Area
- Waterways

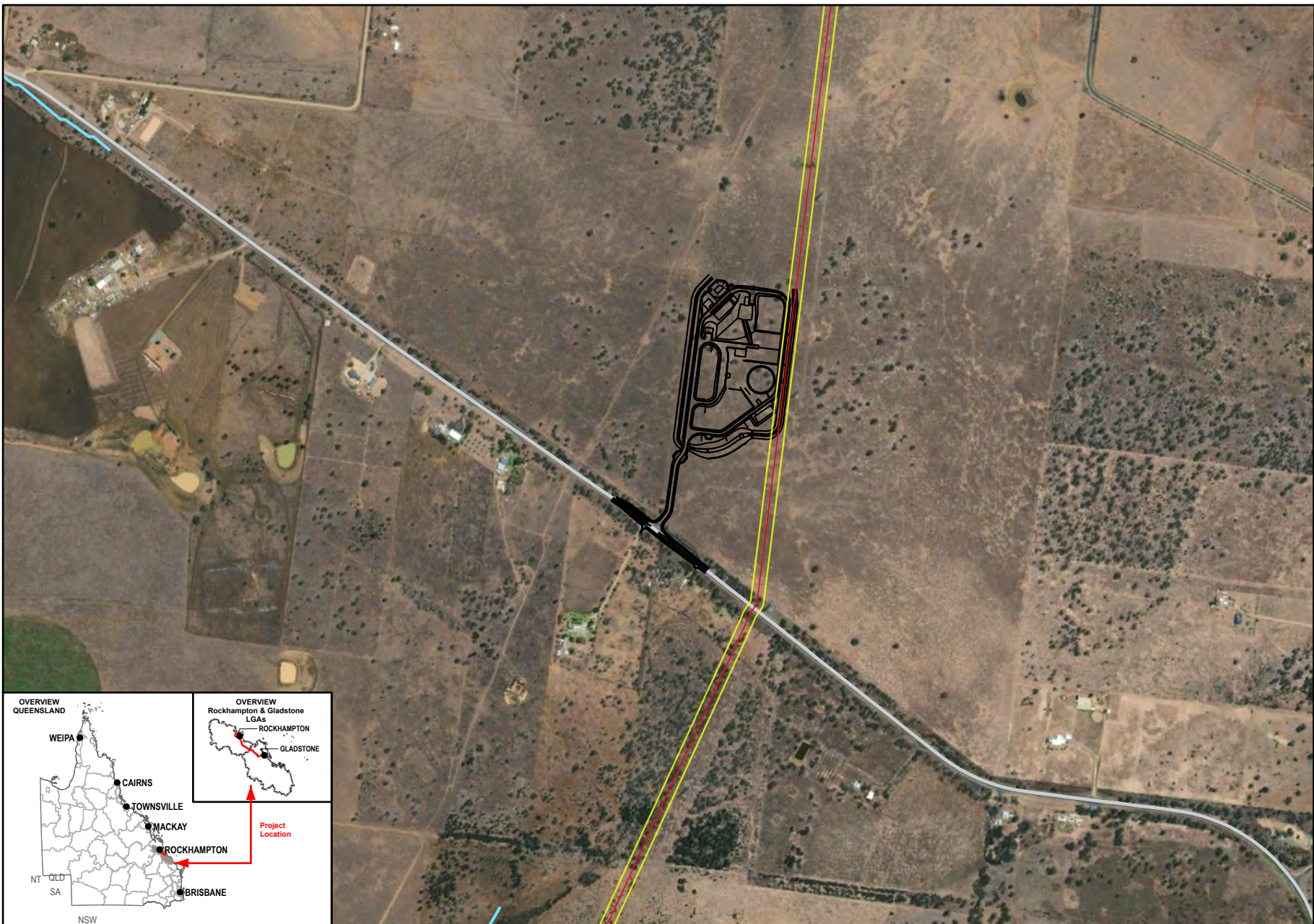
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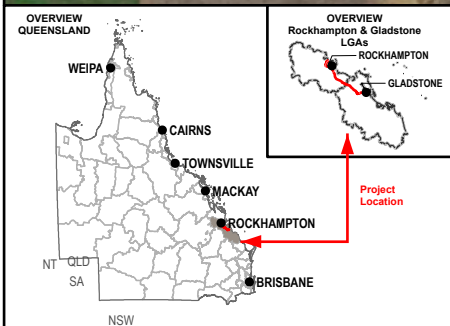
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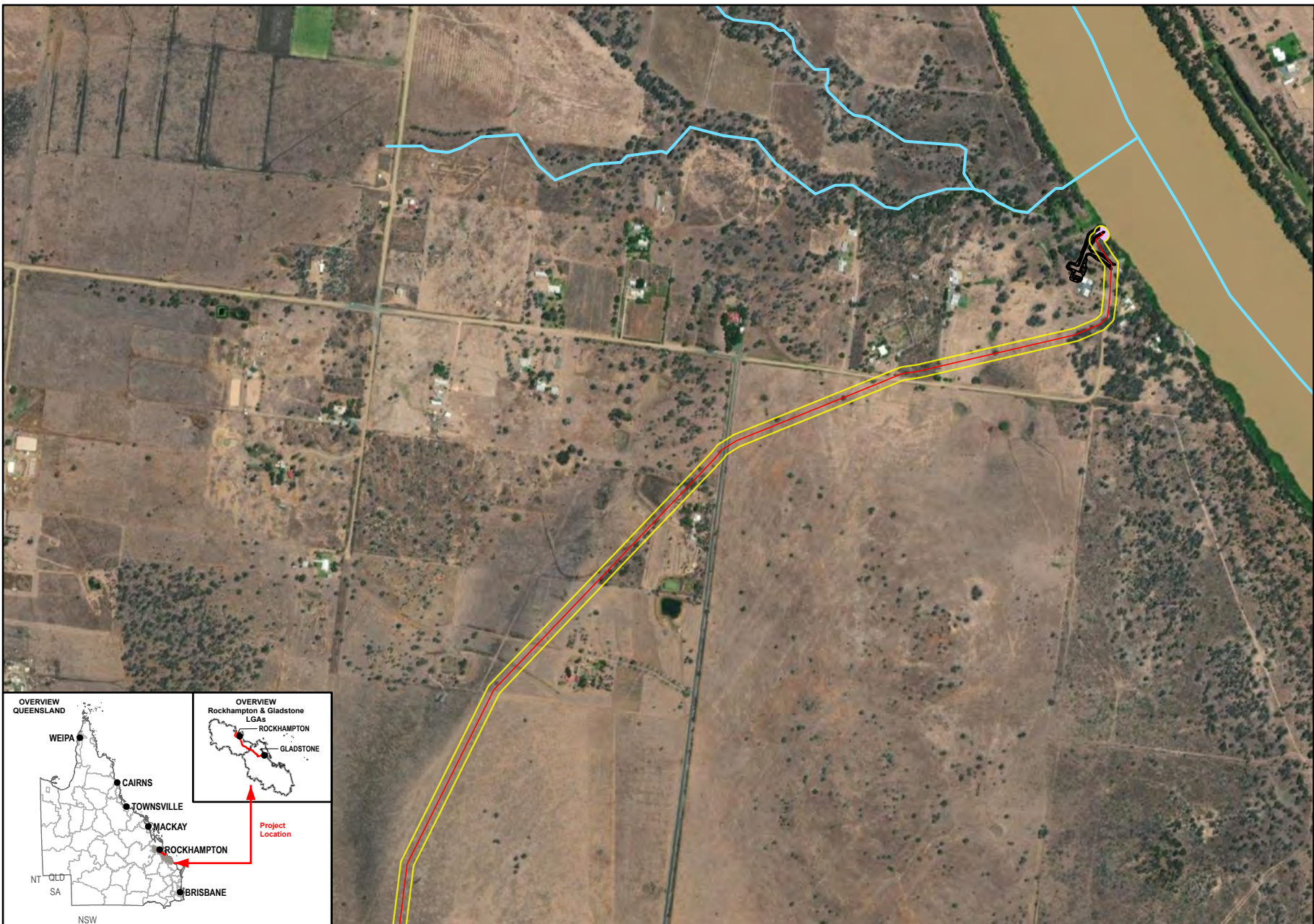
- Legend**
- Northern Section Pipeline Alignment
 - Study Area
 - Alton Down WTP, Pump Station and Reservoir Layout
 - Waterways
 - Main Roads


Data Sources:

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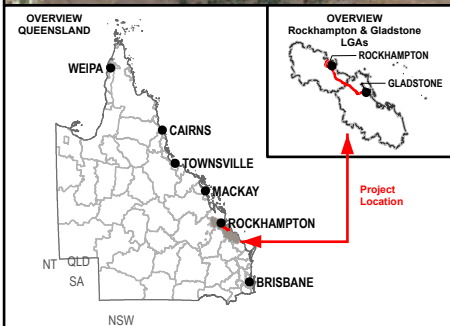
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- Legend**
- Northern Section Pipeline Alignment
 - Study Area
 - Predicted Estuarine Crocodile Habitat
 - Fitzroy River Intake and Pump Station Layout
 - Waterways

Data Sources:

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7.3.1.6 White-throated snapping turtle

Conservation status and species ecology

The white-throated snapping turtle is listed as critically endangered under the EPBC Act and NC Act but was not listed as MNES at the time of the approval. The white-throated snapping turtle is endemic to the Fitzroy, Burnett and Mary River catchments. This species primarily inhabits permanent flowing reaches of streams with a sand/gravel substrate and an abundance of refugia (i.e. rock crevices, submerged logs, macrophytes beds) (Hamann *et al.* 2007). The white-throated snapping turtle is not thought to occur within farm dams, ephemeral swamplands or brackish waters but does occur in impounded pools at lower densities (Limpus *et al.* 2011; Hamann *et al.* 2007). During the day, the white-throated snapping turtle is generally found in deep pools (>6 m) either up- or downstream from a riffle zone, whereas at night the turtle moves into the shallow riffle zones (Gordos *et al.* 2007; Hamann *et al.* 2007).

Field survey results and distribution of suitable habitat

The species is known to occur on the Fitzroy River near Site 23. No preferred nesting habitat for this species occurs in the immediate vicinity of Site 23. Foraging habitat within the study area is generally considered suitable for this species due to large deep permanent pools present within the study, instream connectivity, extensive shading along both banks and high complexity of instream habitat features and large woody debris. There was also the presence of several submerged macrophyte beds and aquatic vegetation, therefore it is likely that this species is present within the study site. The species is unlikely to occur at sites 22, 25, 31 and 32 due the absence of surface waters (Figure 7-26). Overall, habitat conditions within the study area are unsuitable for white-throated snapping turtle nesting.

Significant Residual Impact Assessment

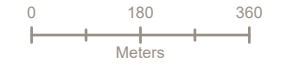
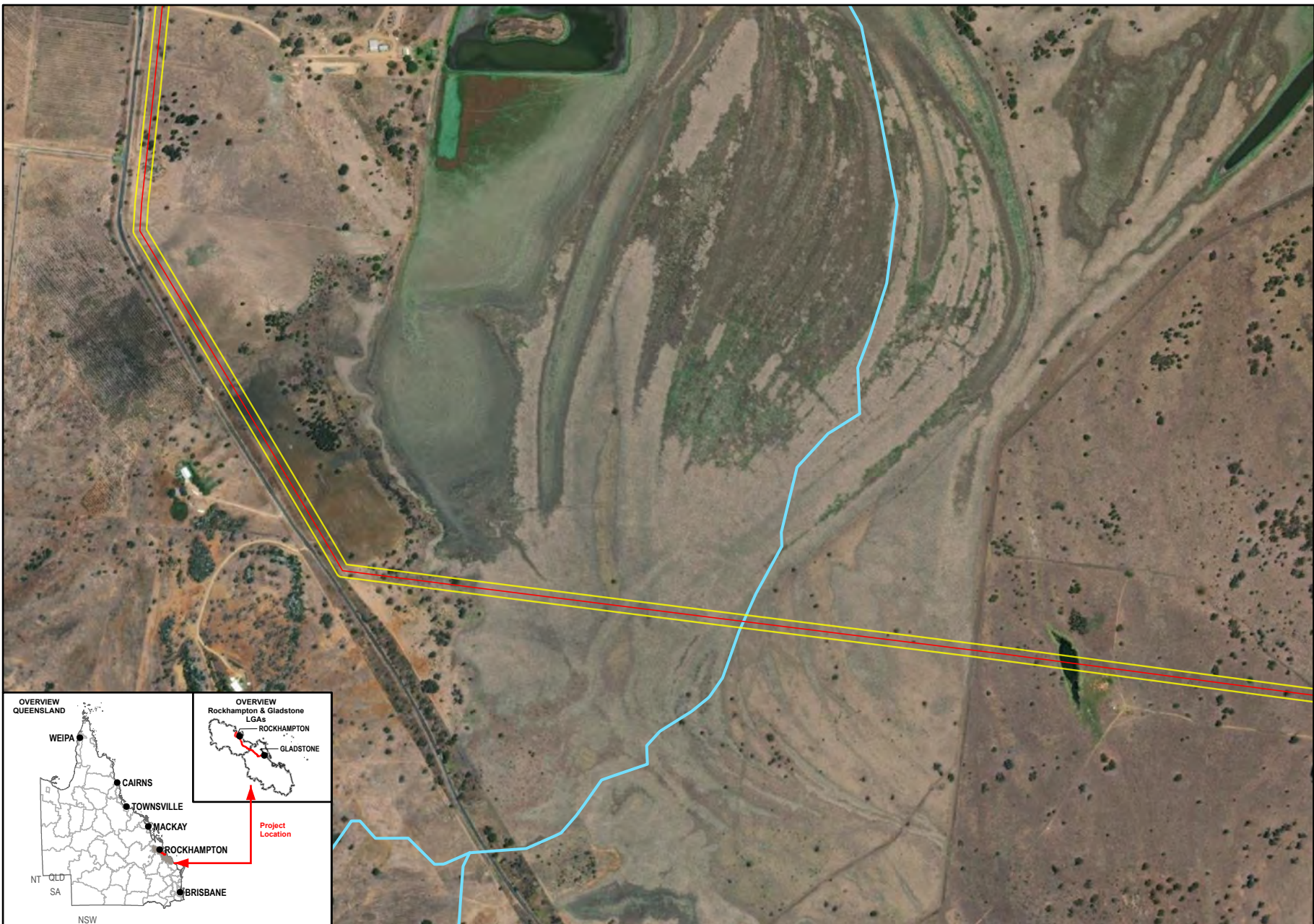
The project is unlikely to have a significant residual impact on the white-throated snapping turtle due to the temporary nature of the works and implementation of avoidance measures for any identified breeding places. A significance of impact assessment of the project on the white-throated snapping turtle (critically endangered EPBC Act and NC Act) is provided in Table 7-46.

Table 7-46 Significance of impact on the white-throated snapping turtle

Significant residual impact criteria	Assessment
Lead to a long-term decrease in the size of a local population	<p>Unlikely</p> <p>The white-throated snapping turtle is listed as critically endangered under the EPBC Act and the NC Act, and is endemic to the Fitzroy, Burnett and Mary River catchments. The white-throated snapping turtle is known to occur throughout the Fitzroy River (Limpus 2008), including near site 23. At sites 22, 25, 31, and 32, the species is unlikely to occur.</p> <p>The suitability of bank habitat for white-throated snapping turtle nesting at site 23 is considered low due to dense bank riparian vegetation and highly compacted bank substrate.</p> <p>Works at site 23 include the intake structure which will involve the localised disturbance of the bed and bank. A coffer dam or similar structure is proposed to be installed around the footprint of the intake structure works to create a dry works area. Fauna salvage will be undertaken within the construction area in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrainment, minimising potential effects of the local population of the white-throated snapping turtle.</p> <p>Design and implementation of a CEMP will further minimise risk to individuals and achieve protection of habitat, such that no long-term decrease in the size of the population is expected to occur.</p> <p>The impact area for all sites will be rehabilitated and additional measures will be implemented in both the construction and operation phases of the intake structure as site 23 to minimise effects to localised disturbance of habitat degradation, no direct impacts to individuals upon a known population of white-throated snapping turtle within the Fitzroy River will occur. It is therefore unlikely to lead to a long-term decrease in the size of a local population.</p>

Significant residual impact criteria	Assessment
Reduce the extent of occurrence of the species	<p>Unlikely</p> <p>The white-throated snapping turtle is known to occur throughout the Fitzroy River (Limpus 2008), including near site 23. At sites 22, 25, 31, and 32, the species is unlikely to occur. Works will be conducted at sites 22, 25, 31, and 32 during the dry season, therefore not effecting the extent of occurrence of the species.</p> <p>At site 23, a coffer dam or similar structure is proposed to be installed around the footprint of the intake structure works to create a dry works area. Fauna salvage will be undertaken within the construction area in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required. Flow and movement outside of the construction area will be maintained throughout construction.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrainment, minimising potential effects of the local population of the turtle. The works will be restricted temporarily to a small, localised area, with measures in place to ensure no long-term impacts to habitat. The population of white-throated snapping turtle will be maintained within, upstream and downstream of the site and therefore it is unlikely that a reduction of the extent of occurrence of the species will occur.</p>
Fragment an existing population	<p>Unlikely</p> <p>No existing population of white-throated snapping turtle occurs at sites 22, 25, 31, and 32, and therefore no fragmentation of an existing population will occur.</p> <p>The white-throated snapping turtle is known to occur throughout the Fitzroy River (Limpus 2008), including near site 23. A coffer dam or similar structure is proposed to be installed around the footprint of the intake structure works to create a dry works area. Fauna salvage will be undertaken within the construction area in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Flow and fauna movement will be maintained adjacent to the construction footprint, such that no fragmentation of the population will occur.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrainment, minimising potential effects of the local population of the white-throated snapping turtle. The works will be restricted temporarily to a small, localised area, with measures in place to avoid fragmentation of the species.</p> <p>Due to the localised and temporary nature of the construction impacts, no fragmentation of an existing population will occur.</p>
Result in genetically distinct populations forming as a result of habitat isolation	<p>Unlikely</p> <p>The project is unlikely to fragment the species population and therefore is not considered to result in genetically distinct populations forming as a result of habitat isolation.</p>
Result in invasive species that are harmful to an endangered species becoming established in the endangered species' habitat	<p>Unlikely</p> <p>Construction activities have the potential to increase the presence of introduced weed and pest species that can degrade turtle nesting habitat suitability and predate upon turtle nests. The suitability of habitat at site 23 for turtle nesting is limited as a result of the density of riparian bank vegetation and bank substrate. Implementation of best practice weed and pest management techniques coupled with erosion and sediment management controls will reduce the likelihood of impacts to potential turtle nesting habitats. The management actions proposed for the control of weed and pest species are considered sufficient such that no significant impact to the white-throated snapping turtle and/or the species' habitat is likely to occur.</p>

Significant residual impact criteria	Assessment
Introduce disease that may cause the population to decline	<p>Unlikely</p> <p>There are no known diseases that this species is susceptible to or threatened by that proposed works have the potential to introduce. Therefore, it is considered unlikely that construction and operation of the intake structure and the waterway crossings will have the potential to introduce disease to the extent that the white-throated snapping turtle population will decline.</p>
Interfere with the recovery of the species	<p>Unlikely</p> <p>The National Recovery Plan for the white-throated snapping turtle (<i>Elseya albagula</i>) which the Department of Agriculture, Water and the Environment (DAWE) is responsible for outlines of the recovery strategies for the species (DAWE, 2020). These are to:</p> <ul style="list-style-type: none"> – Substantially improve the recruitment of hatchlings into the population – Reduce the incidence of adult mortality and injury – Maintain and/or improve stream flow and habitat quality throughout the species' distribution – Maintain and/or improve the connectivity within populations throughout catchment; and – Increase public awareness and participation in conservation of the species and its habitat. <p>There are no existing populations of white-throated snapping turtle at sites 22, 25, 31, and 32, measures including construction at these sites occurring during the dry season will ensure that the project does not interfere with the recovery of the species.</p> <p>The species is known to occur throughout the Fitzroy River, including near site 23. The project potentially could cause incidence of adult mortality or injury and habitat degradation during construction.</p> <p>Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required. Fauna salvage will be undertaken within the construction area of this intake structure in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Works will be undertaken in accordance with DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018) and flow and fauna movement maintained adjacent to construction.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrainment, minimising potential effects of the local population of the white-throated snapping turtle.</p> <p>Design and implementation of a CEMP for the construction phase and an OEMP for the operational phase. OEMP is to include extraction monitoring to avoid habitat degradation.</p> <p>These measures will ensure that the project is unlikely to contribute to key threatening processes or interfere with recovery actions.</p>
Cause disruption to ecologically significant locations of a species	<p>Unlikely</p> <p>At sites 22, 25, 31, and 32, the white-throated snapping turtle is unlikely to occur due to a lack of available surface water. With no population existing within these sites, the project is not expected to cause disruption to ecologically significant locations of a species.</p> <p>The species is known to occur throughout the Fitzroy River (ALA 2022), including near site 23 and the site provides optimal foraging habitat. The works will be restricted to a small, localised area around the site with the duration of works to be less than 180 days. Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required.</p> <p>Design and implementation of a CEMP for the construction phase and an OEMP for the operational phase. OEMP is to include extraction monitoring to avoid habitat degradation.</p> <p>Works at this location will be designed so that the species cannot enter the construction zone whilst installation of the intake structure occurs. These measures result that the project is unlikely to cause disruption to ecologically significant locations of a species.</p>
Conclusion	<p>Due to the temporary nature of the construction works and restoration of any degradation of potential habitat, the project is not expected to have a significant residual impact on the white-throated snapping turtle.</p>



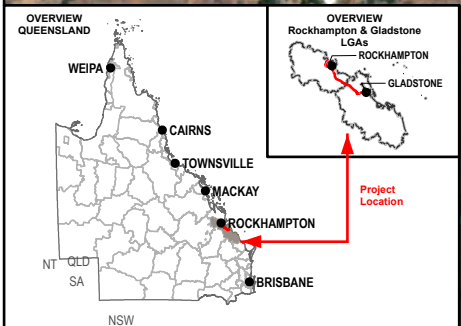
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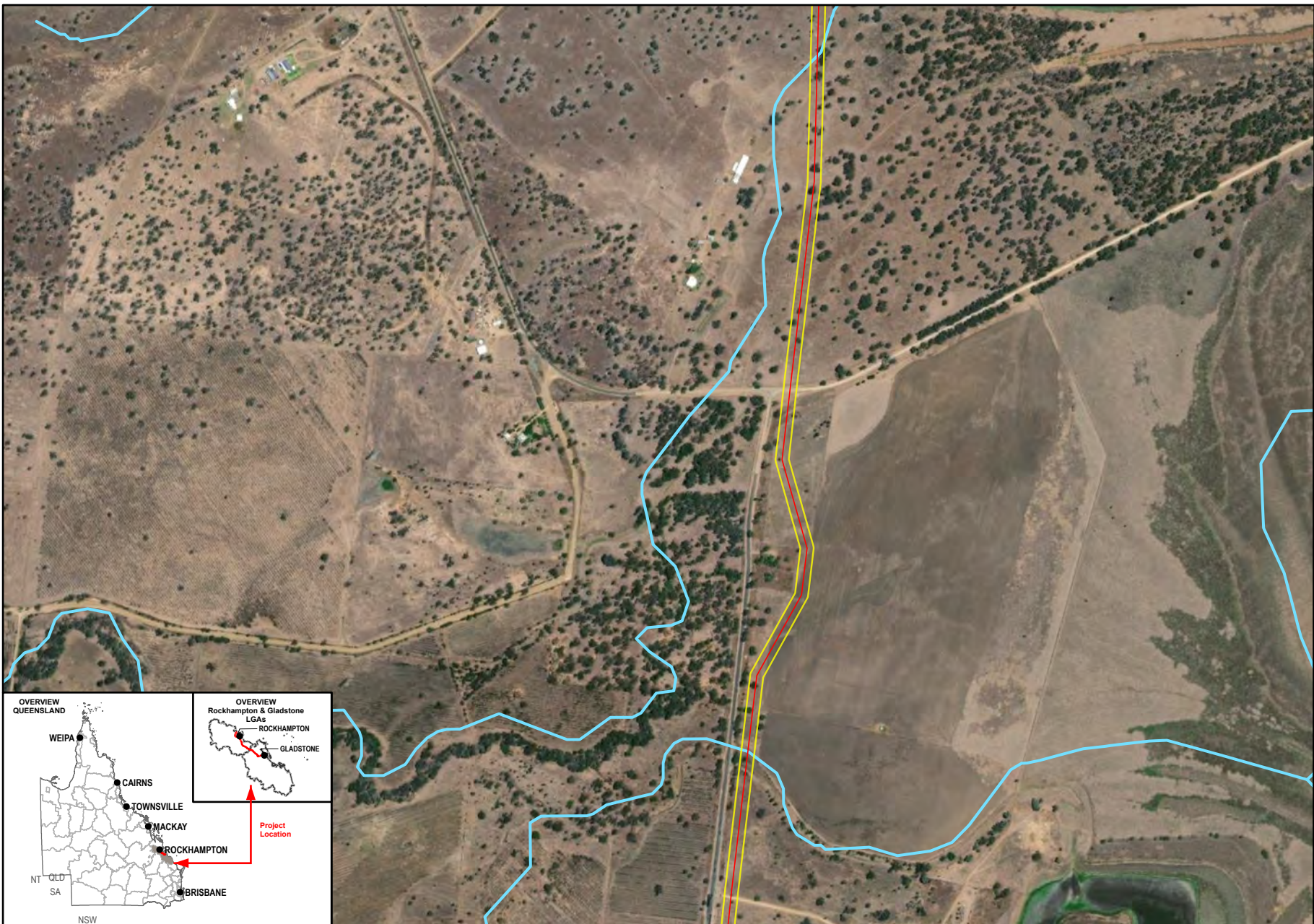
Legend

- Northern Section Pipeline Alignment
- Study Area
- Waterways

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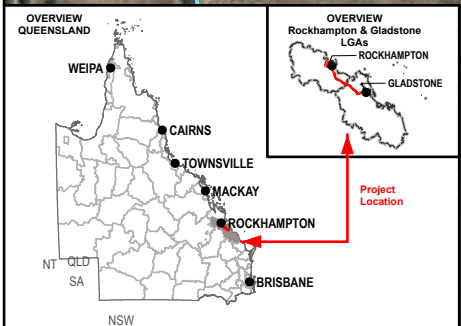
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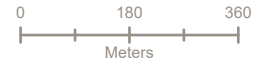
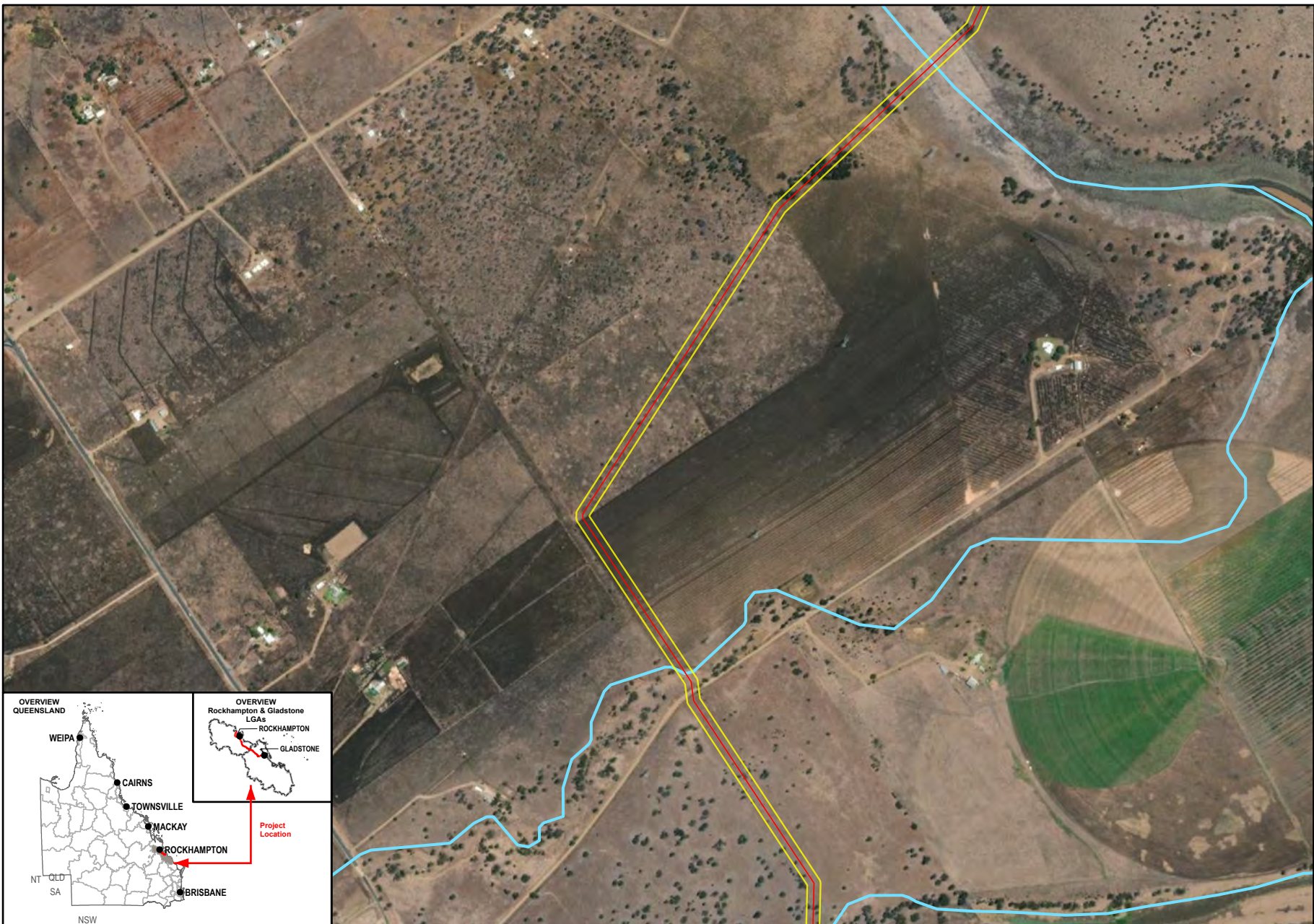
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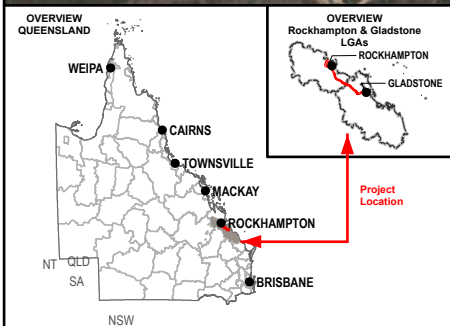




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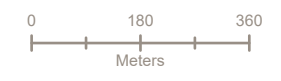
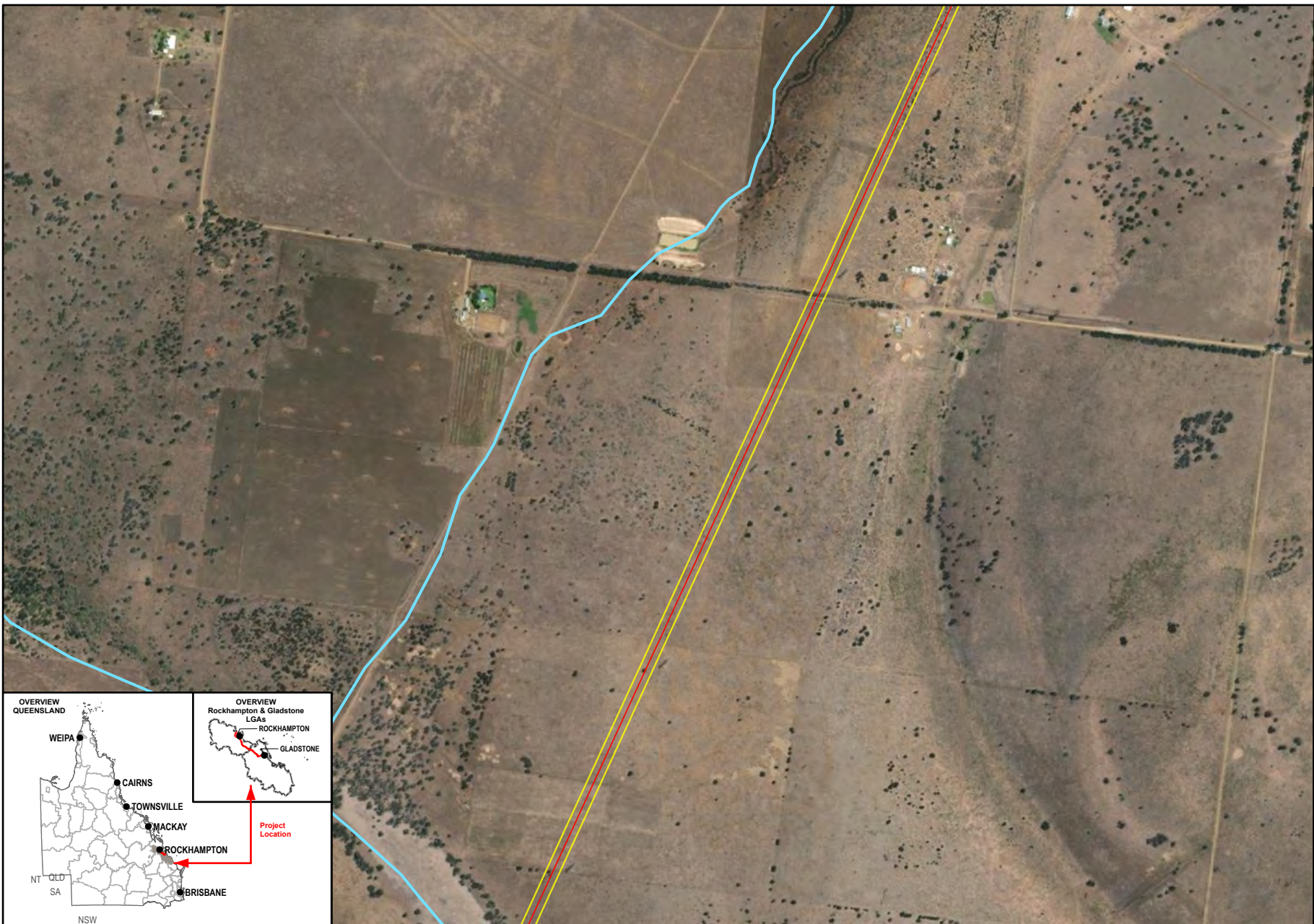
Legend

- Northern Section Pipeline Alignment
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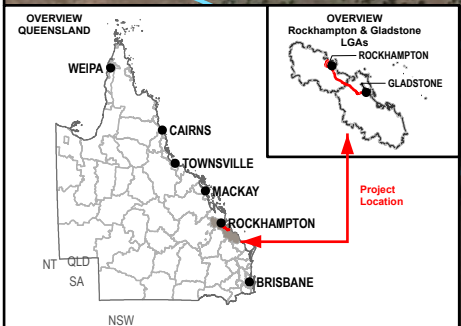
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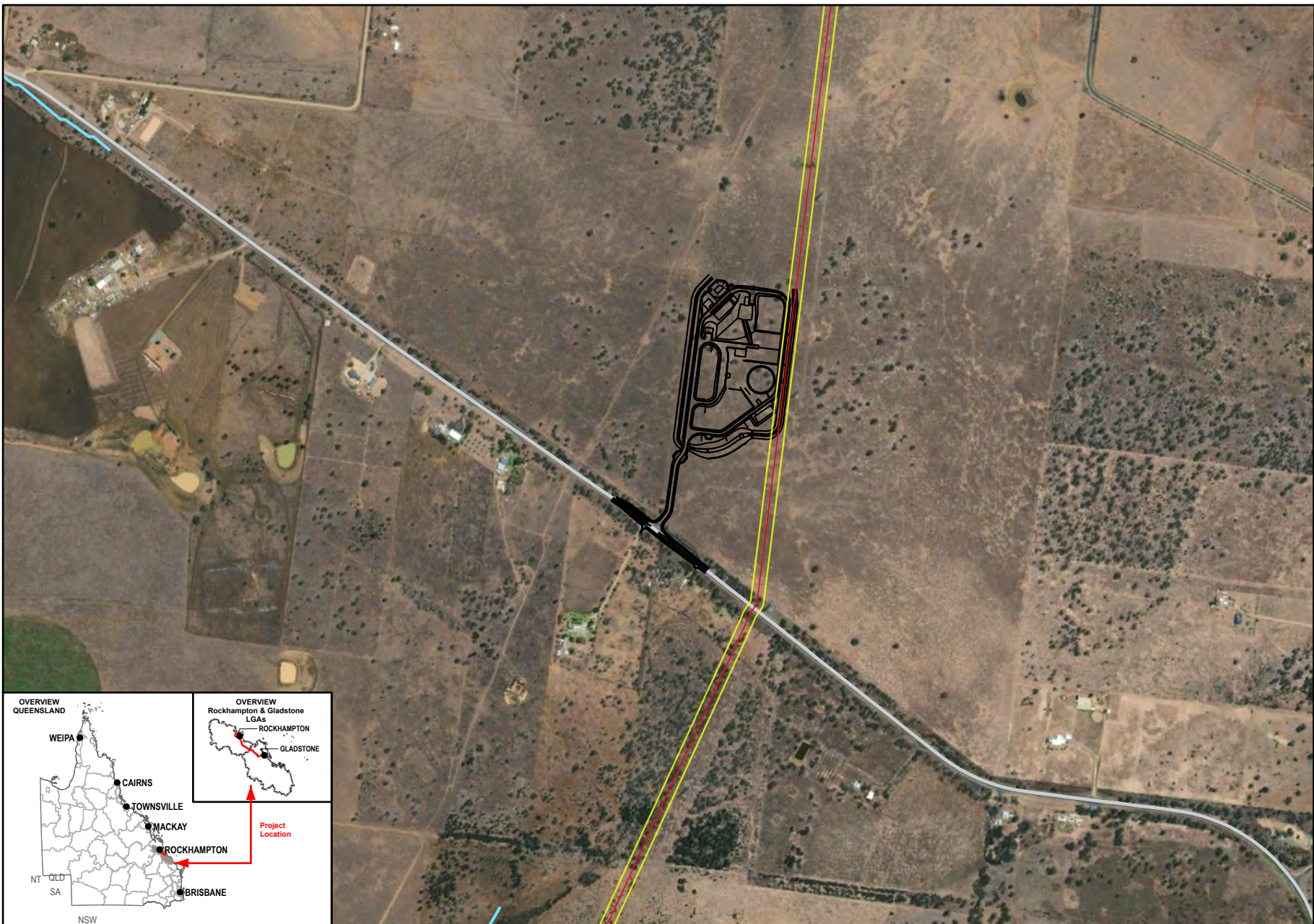
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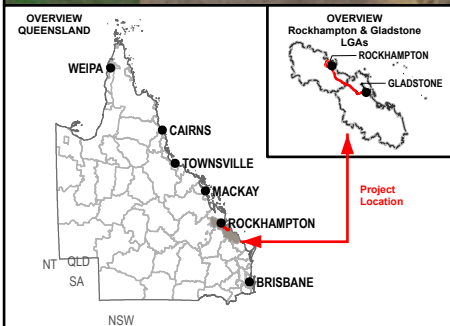
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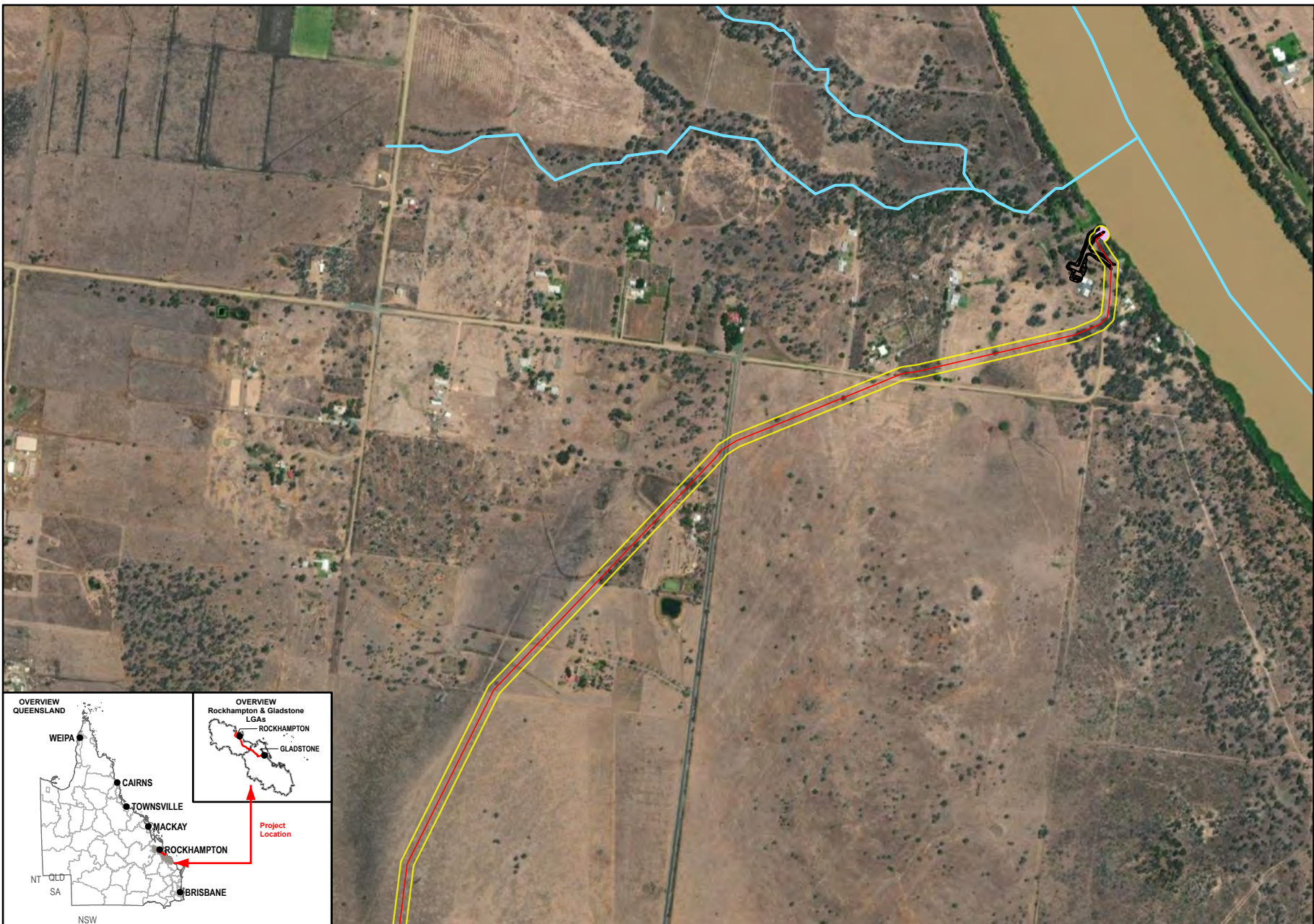
- Legend**
- Northern Section Pipeline Alignment
 - Study Area
 - Alton Down WTP, Pump Station and Reservoir Layout
 - Waterways
 - Main Roads

Data Sources:

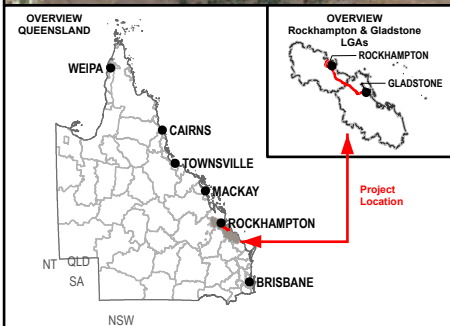
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- Legend**
- Northern Section Pipeline Alignment
 - Study Area
 - Predicted White-throated Snapping Turtle Habitat
 - Fitzroy River Intake and Pump Station Layout
 - Waterways



Data Sources:

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7.3.1.7 Platypus

Conservation status and species ecology

Platypi are found in eastern Australia from far north Queensland to Tasmania. In Queensland, the species inhabits rivers east of the Great Dividing Range, and some western-flowing streams (DES 2021a). Platypus habitat includes freshwater creeks, slow-moving rivers, lakes joined by rivers, and built water storages such as farm dams. Preferred habitat for the species is defined as areas that have steep, well vegetated banks (Grant and Temple-Smith 1998). Platypi occupy a wide range of aquatic habitats, are somewhat tolerant of degraded systems, and show notable adaptability (Grant and Temple-Smith 1998). Burrows are built in riverbanks, just above water level and often among a tangle of tree roots (DES 2021a).

Platypi mostly live alone but can share a water body with several other platypi. Platypi show fidelity to home ranges with daily foraging movements of several kilometres. Platypi eat small aquatic invertebrates such as insect larvae, freshwater shrimps, and crayfish. The species detects electrical currents in the water with its bill and this is used to find prey. Dawn and dusk are periods of increased activity (DES 2021a).

Field survey results and distribution of suitable habitat

The platypus is known to occur throughout upper, mid, and lower reaches of the Fitzroy River and throughout the basin, and there are confirmed records of platypus within the study area (ALA 2022). The vertical banks with overhanging vegetation, large trees providing shading and abundant large woody debris in the throughout the year and the surrounding area at site 23 provides suitable habitat and burrowing opportunities for platypi and is therefore likely to occur at this site. At sites 22, 25, 31, and 32, the species is unlikely to occur due to a lack of available surface water and suitable habitat (Figure 7-27). During the survey at all locations, no individuals were observed, and no platypus burrows were detected.

Significant Residual Impact Assessment

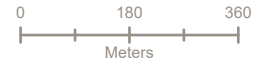
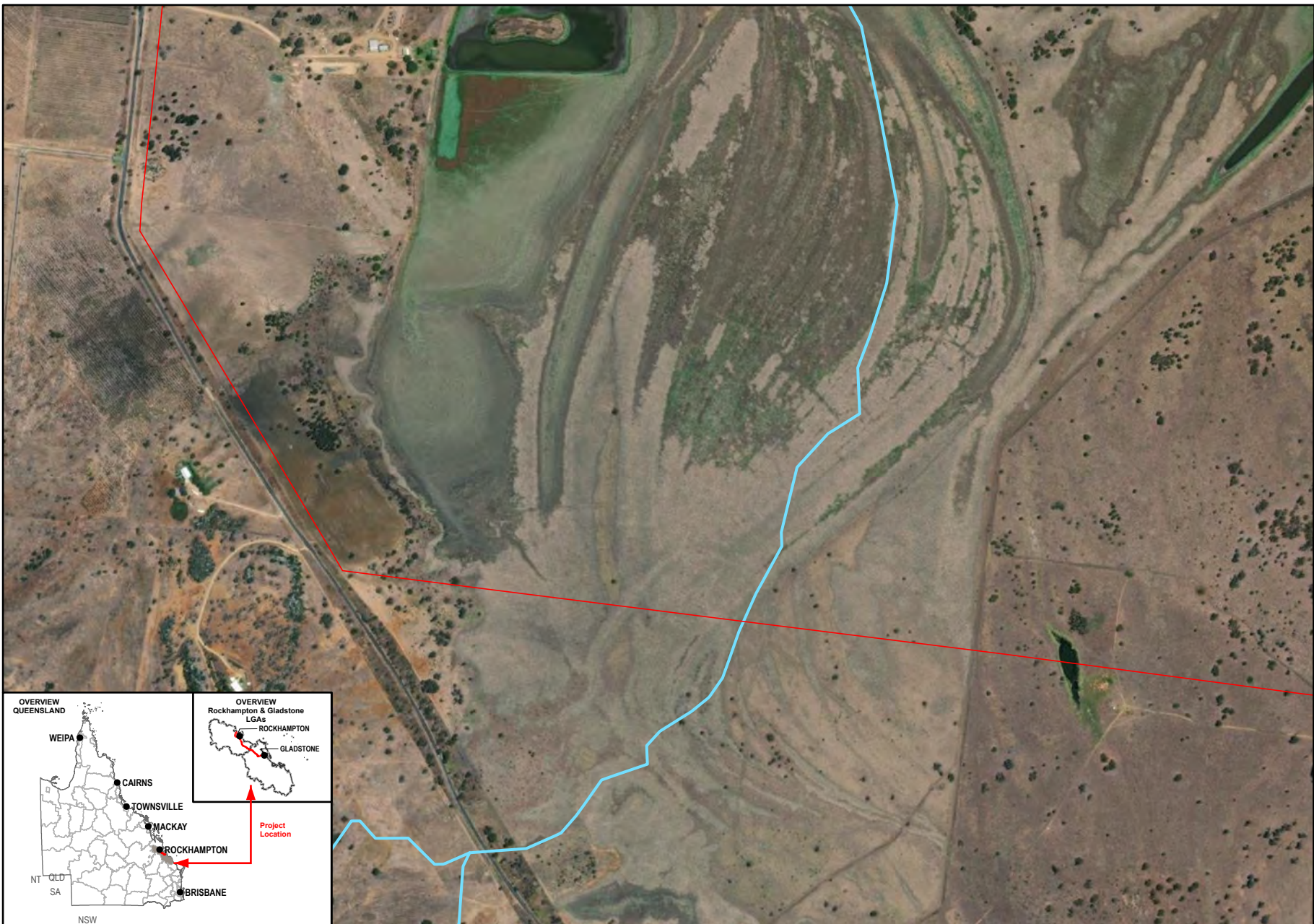
The project is unlikely to have a significant residual impact on the platypus due to the temporary nature of the works and implementation of avoidance measures for any identified breeding places. A significance of impact assessment of the project on the platypus (special least concern NC Act) is provided in Table 7-47 in accordance with the Queensland Government’s significant residual impact guidelines (DEHP 2014b).

Table 7-47 Significance of impact on the platypus

Significant residual impact criteria	Assessment
Lead to a long-term decrease in the size of a local population	<p>Unlikely</p> <p>At sites 22, 25, 31, and 32, the species is unlikely to occur due to a lack of available surface water. Works will be conducted at sites 22, 25, 31, and 32 during the dry season and therefore is unlikely to lead to a long-term decrease in the size of local population. The platypus is known to occur throughout the Fitzroy River (ALA 2022), including near site 23 and the site provides optimal foraging habitat and likely optimal burrowing habitat.</p> <p>Works at site 23 include the intake structure which will involve the localised disturbance of the bed and bank. A coffer dam or similar structure is proposed to be installed around the footprint of the intake structure works to create a dry works area. Fauna salvage will be undertaken within the construction area in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrainment, minimising potential effects of the local population of the platypus.</p> <p>Design and implementation of a CEMP will further minimise risk to platypus and achieve protection of habitat, such that no long-term decrease in the size of the population is expected to occur.</p> <p>The impact area for all sites will be rehabilitated and additional measures will be implemented in both the construction and operation phases of the intake structure as site 23 to minimise effects to localised disturbance of habitat degradation, no direct impacts to individuals upon a known population of platypus within the Fitzroy River will occur. It is therefore unlikely to lead to a long-term decrease in the size of a local population.</p>

Significant residual impact criteria	Assessment
Reduce the extent of occurrence of the species	<p>Unlikely</p> <p>At sites 22, 25, 31, and 32, the species is unlikely to occur due to a lack of available surface water. Works will be conducted at sites 22, 25, 31, and 32 during the dry season, therefore not effecting the extent of occurrence of the species.</p> <p>The species is known to occur throughout the Fitzroy River (ALA 2022), including near site 23 and the site provides optimal foraging habitat and likely optimal burrowing habitat.</p> <p>A coffer dam or similar structure is proposed to be installed around the footprint of the intake structure works to create a dry works area. Fauna salvage will be undertaken within the construction area in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required. Flow and movement outside of the construction area will be maintained throughout construction.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrapment, minimising potential effects of the local population of the platypus. The works will be restricted temporally to a small, localised area, with measures in place to ensure no long-term impacts to habitat.</p> <p>These measures ensure that it is unlikely that a reduction of the extent of occurrence of the species will occur.</p>
Fragmentation an existing population	<p>Unlikely</p> <p>The species is known to occur throughout the Fitzroy River (ALA 2022), including near site 23 and the site provides optimal foraging habitat and likely optimal burrowing habitat.</p> <p>Platypus are known to forage over a home range, typically 6-11 km for males and 2-4 km for females, although platypus do not need to undertake migrations as a critical component of their life history.</p> <p>A coffer dam or similar structure is proposed to be installed around the footprint of the intake structure works to create a dry works area. Fauna salvage will be undertaken within the construction area in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Works will be undertaken in accordance with DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018) and flow and platypus movement will be maintained adjacent to the works.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrapment, minimising potential effects of the local population of the platypus. The works will be restricted temporally to a small, localised area, with measures in place to ensure fragmentation of the species does not occur.</p> <p>These measures will ensure that no fragmentation of the population will occur.</p>
Result in genetically distinct populations forming as a result of habitat isolation	<p>Unlikely</p> <p>The project unlikely to fragment the species population and therefore is not considered to result in genetically distinct populations forming as a result of habitat isolation.</p>
Result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species habitat	<p>Unlikely</p> <p>The introduced feral cat and European fox are identified as threats to the platypus. Considering these species are already locally established, the project is unlikely to introduce additional invasive fauna or facilitate the spread of these species. The risk of invasive fauna species will be controlled through implementation of a Feral Animal Control Program during construction and operations.</p>
Introduce disease that may cause the population to decline	<p>Unlikely</p> <p>There are few significant diseases known from wild platypus populations. A small number of platypi suffer from a murcomosis a fungal disease found in Tasmania however there have been no individuals recorded with the disease on mainland Australia. There are no known diseases that this species is susceptible to or threatened by that proposed works have the potential to introduce. Therefore, it is considered unlikely that the project will have the potential to introduce disease to the extent that the platypus population will decline.</p>
Interfere with the recovery of the species	<p>Unlikely</p> <p>Degradation of habitat will be localised and temporary. Cleared suitable habitat during the construction phase is expected to re-establish along the Northern Section pipeline alignment. No direct impact to the recovery of the species will occur as a result of the project.</p>

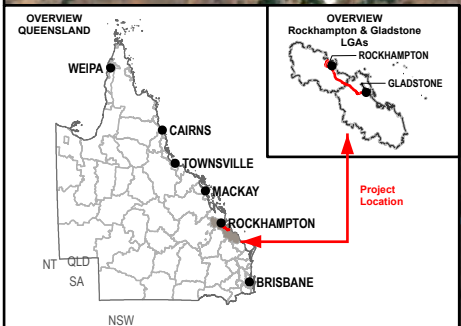
Significant residual impact criteria	Assessment
<p>Disruption to ecologically significant locations (breeding, feeding, nesting, migration or resting sites) of a species</p>	<p>Unlikely</p> <p>At sites 22, 25, 31, and 32, the species is unlikely to occur due to a lack of available surface water and therefore disruption to ecologically significant locations for the species is unlikely to occur.</p> <p>The species is known to occur throughout the Fitzroy River (ALA 2022), including near site 23 and the site provides optimal foraging habitat and likely optimal burrowing habitat.</p> <p>A coffer dam or similar structure is proposed to be installed around the footprint of the intake structure works to create a dry works area. Fauna salvage will be undertaken within the construction area in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Works will be undertaken in accordance with DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018) and flow and platypus movement will be maintained adjacent to the works.</p> <p>Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required. Flow and movement outside of the construction area will be maintained throughout construction.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrapment, minimising potential effects of the local population of the platypus. The works will be restricted temporally to a small, localised area, with measures in place to ensure fragmentation of the species does not occur.</p> <p>Design and implementation of a CEMP during the construction phase along with an operation environmental management plan (OEMP) to monitor water extraction during operations will further minimise risk to individual platypus and achieve protection of ecologically significant locations.</p> <p>These measures will ensure that a disruption to ecologically significant locations for this species.</p>
<p>Conclusion</p>	<p>Due to localised disturbance with the restoration of potential platypus habitat post construction, the project is considered unlikely to have a significant impact on the platypus.</p>



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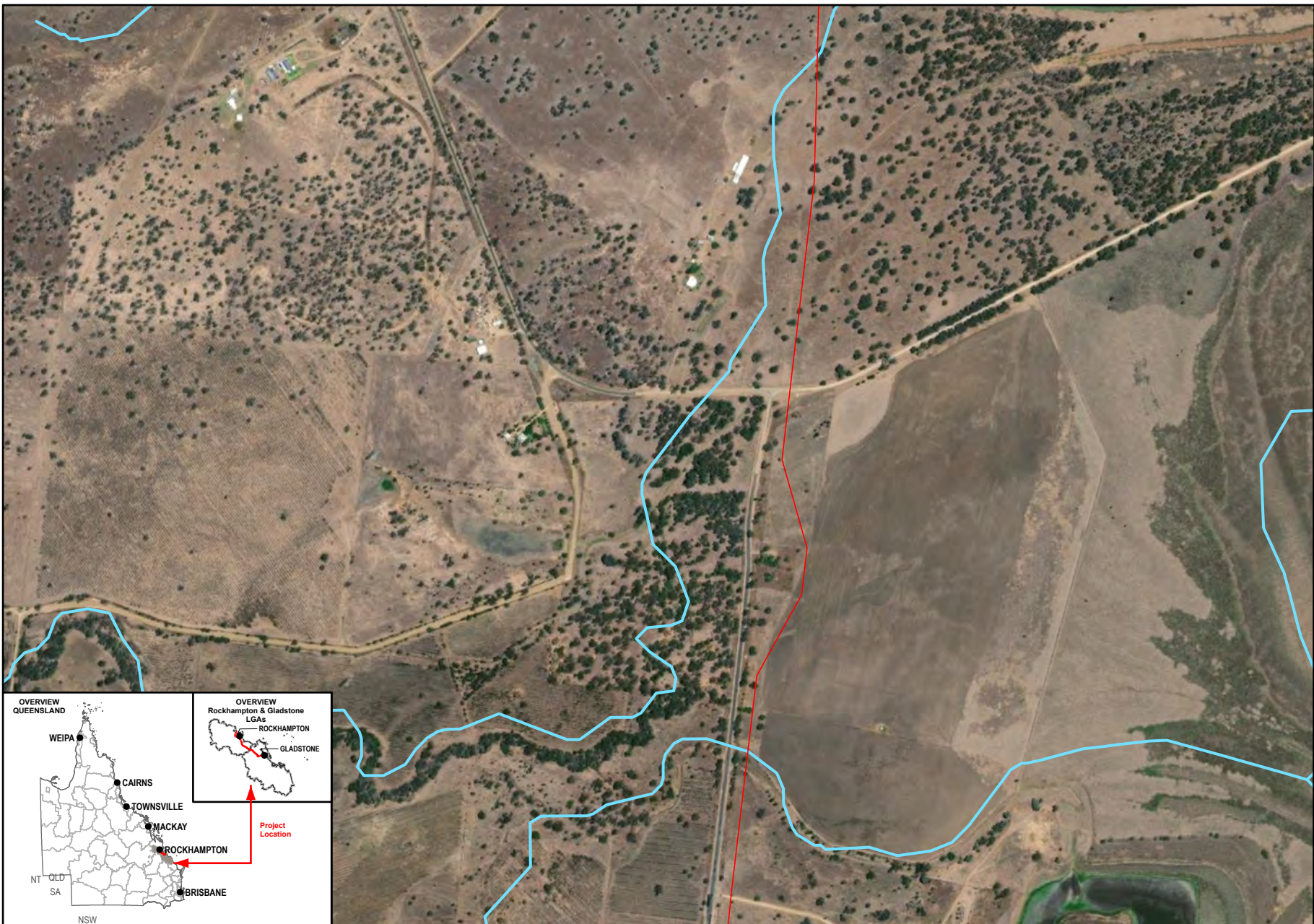
Legend

- Northern Section Pipeline Alignment
- Waterways



Data Sources:
 1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
 2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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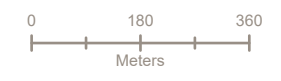
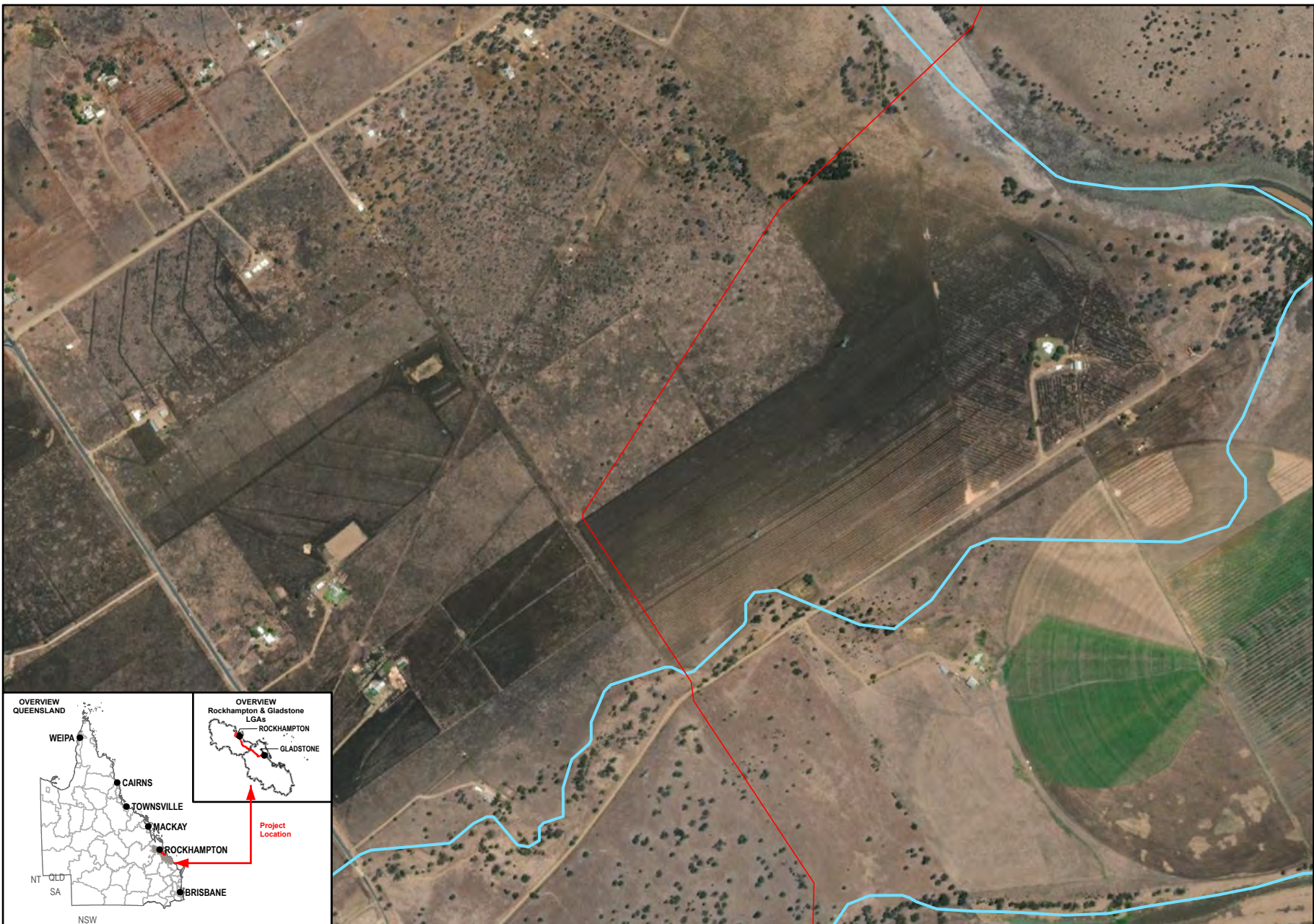
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- Legend**
- Northern Section Pipeline Alignment
 - Waterways

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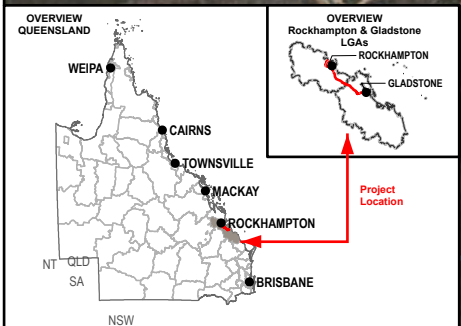
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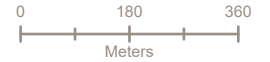
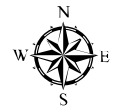
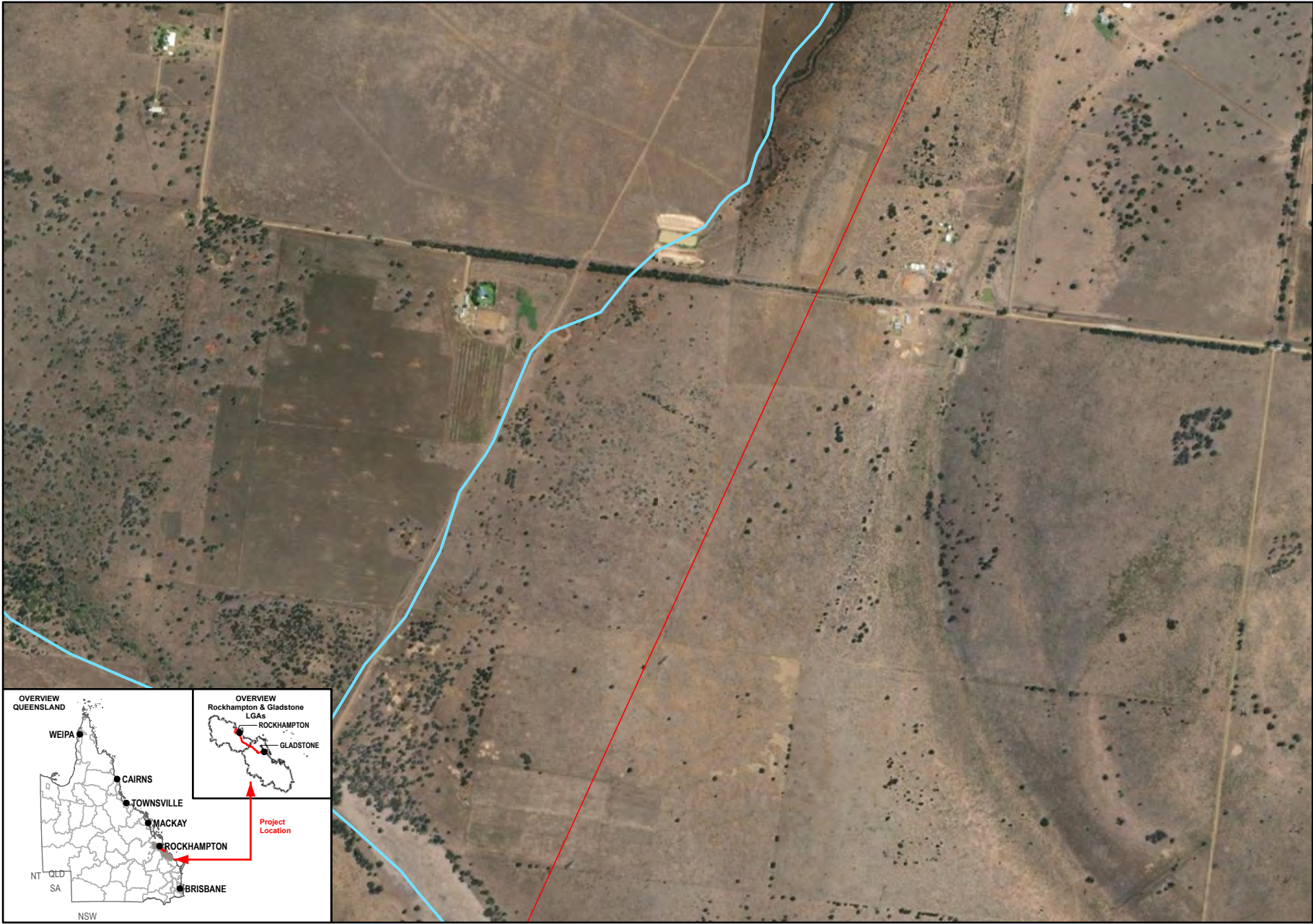
Legend

- Northern Section Pipeline Alignment
- Waterways



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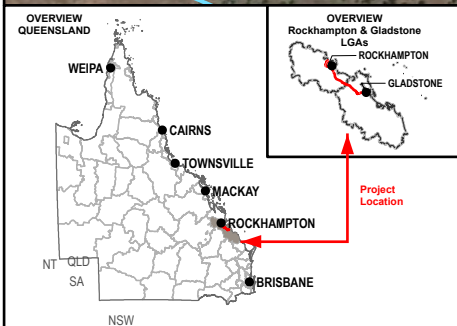
- Northern Section Pipeline Alignment
- Waterways

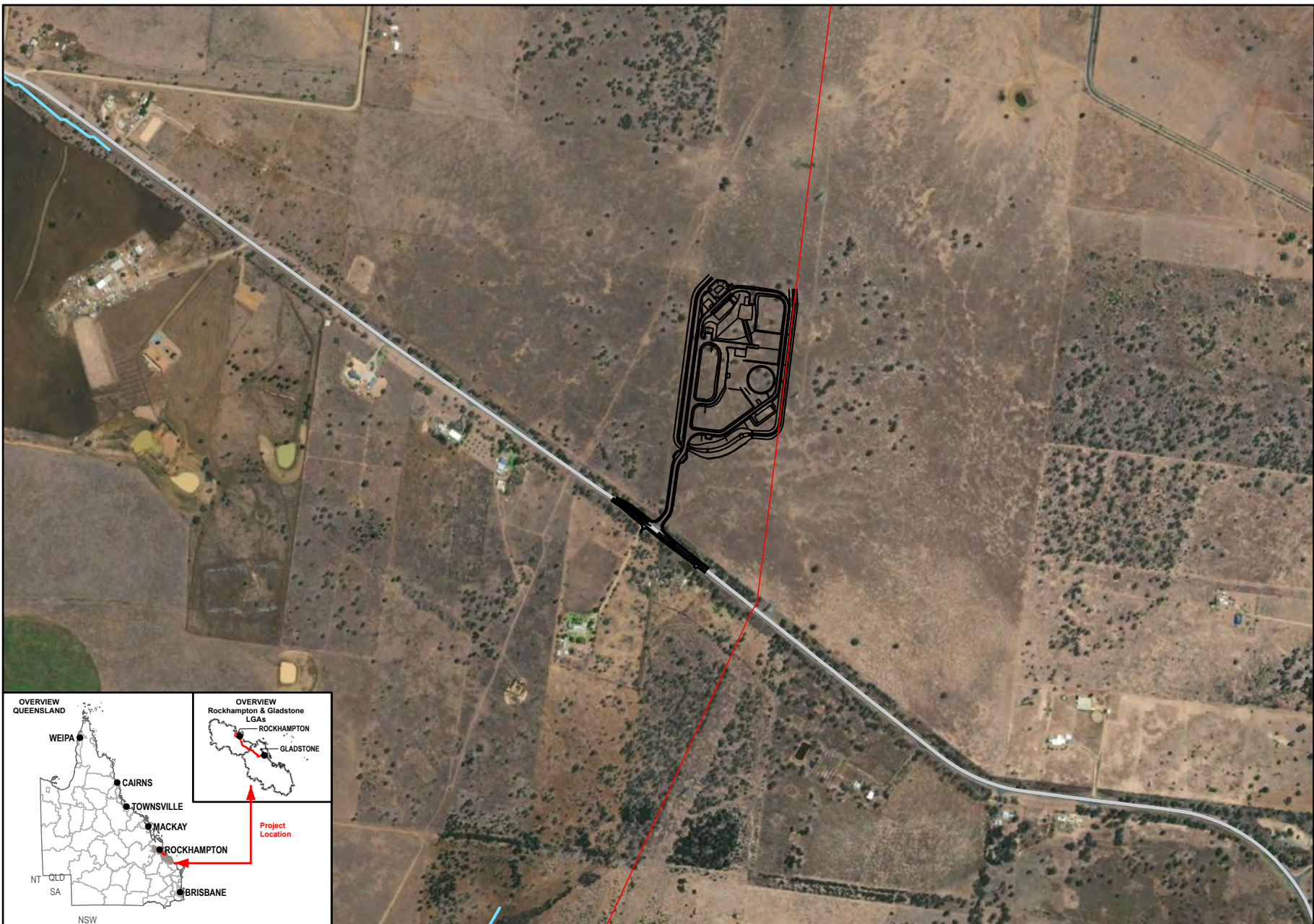
Data Sources:

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2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

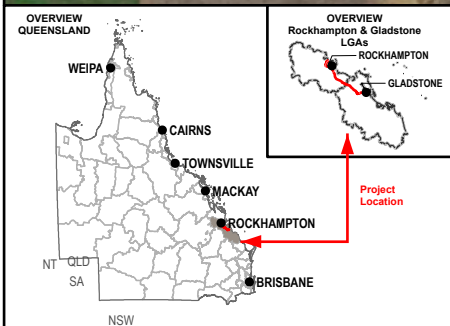
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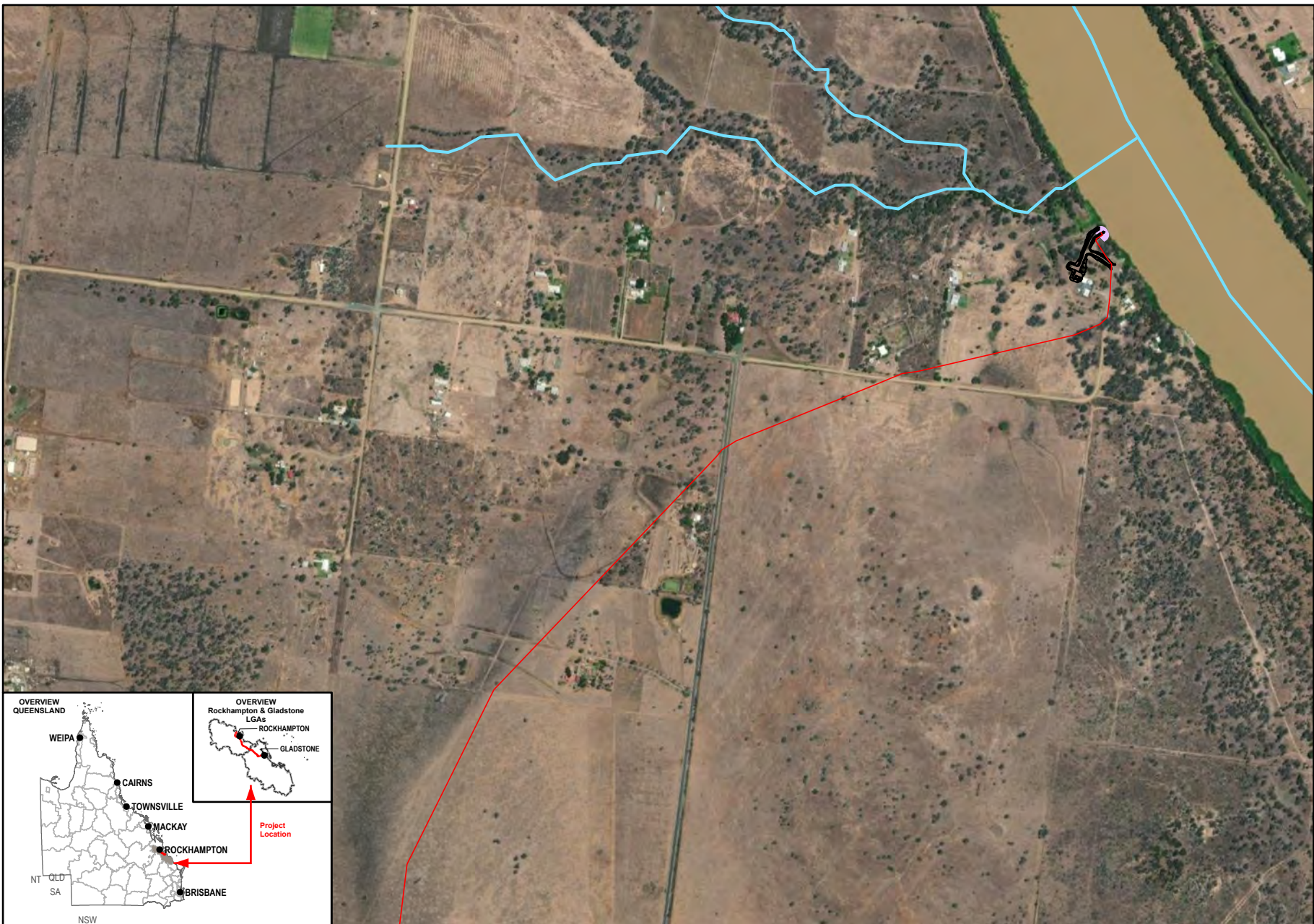


- Legend**
- Northern Section Pipeline Alignment
 - Alton Down WTP, Pump Station and Reservoir Layout
 - Waterways
 - Main Roads



Data Sources:
 1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
 2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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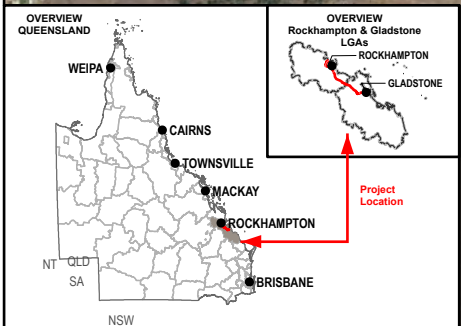
- Northern Section Pipeline Alignment
- Predicted Platypus Habitat
- Fitzroy River Intake and Pump Station Layout
- Waterways

Data Sources:

1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
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7.3.1.8 Fitzroy River turtle

Conservation status and species ecology

The Fitzroy River turtle is listed as vulnerable under the EPBC Act and NC Act and was listed as an MNES at the time of the approval. The Fitzroy River turtle, endemic to the Fitzroy River and associated tributaries prefers flowing river sections with large deep pools with rocky, gravel or sandy substrates, connected by shallow riffles (Cogger *et.al.* 1993). It is a benthic feeder whose diet consists of insects, macro-invertebrates, crustaceans, algae, gastropods, worms, freshwater sponges and aquatic plants (Latta and Latta, 2005). Preferred areas have high water clarity and often associated with ribbonweed (*Vallisneria* sp.) beds (Cogger, et.al 1993). Nesting occurs between September and October on river sand banks typically 1-4 metres above water level (Cann, 1998).

Field survey results and distribution of suitable habitat

The species is known to occur throughout the Fitzroy River. No historical records were identified within the desktop search extent (10 km buffer) with the nearest record approximately 21 km upstream. Suitable habitat for the Fitzroy River turtle was present at Site 23. Similar to the white-throated snapping turtle, foraging habitat within the study area is generally considered suitable for this species due to large deep permanent pools present within the study, instream connectivity and habitat features such as large woody debris and rocky substrates. There was also the presence of several submerged macrophyte beds and aquatic vegetation, therefore it is likely that this species is present within the study site. No preferred nesting habitat for this species occurs in the immediate vicinity of Site 23. The species is unlikely to occur at sites 22, 25, 31 and 32 due the absence of surface waters (Figure 7-28). Overall, habitat conditions within the study area are unsuitable for Fitzroy River turtle nesting due to dense bank riparian vegetation and highly compacted bank substrate.

Significant Residual Impact Assessment

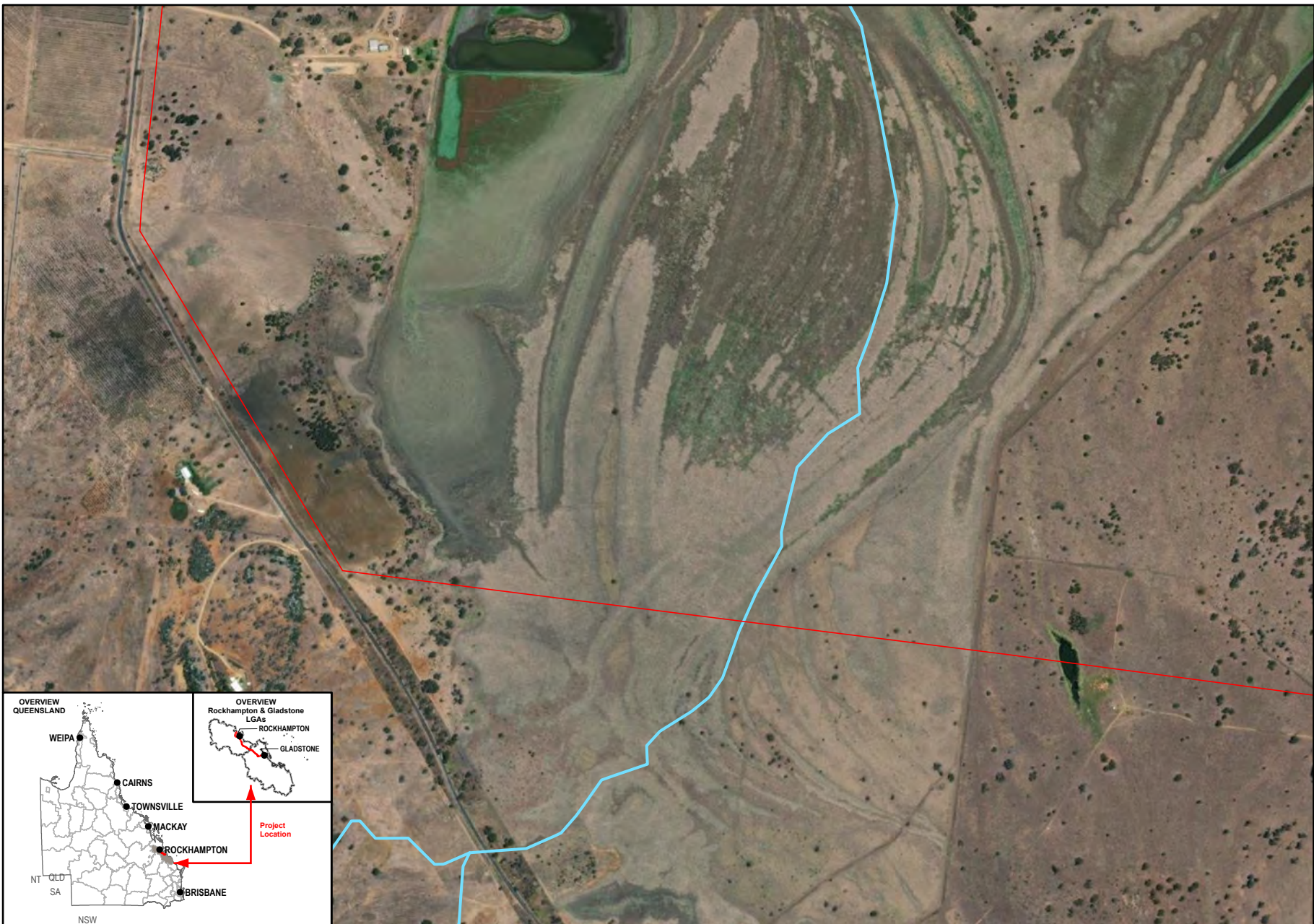
The project is unlikely to have a significant residual impact on the Fitzroy River turtle due to the temporary nature of the works and implementation of avoidance measures for any identified breeding places. A significance of impact assessment of the project on the Fitzroy River turtle (vulnerable EPBC Act and NC Act) is provided in Table 7-48.

Table 7-48 Significance of impact on the Fitzroy River turtle

Significant residual impact criteria	Assessment
Lead to a long-term decrease in the size of a local population	<p>Unlikely</p> <p>The Fitzroy River turtle is listed as vulnerable under the EPBC Act and the NC Act, and is endemic to the Fitzroy River and associated tributaries, Suitable habitat was recorded present near site 23. At sites 22, 25, 31, and 32, the species is unlikely to occur.</p> <p>The suitability of bank habitat for Fitzroy River turtle nesting at site 23 is considered low due to dense bank riparian vegetation and highly compacted bank substrate.</p> <p>Works at site 23 include the intake structure which will involve the localised disturbance of the bed and bank. A coffer dam or similar structure is proposed to be installed around the footprint of the intake structure works to create a dry works area. Fauna salvage will be undertaken within the construction area in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrainment, minimising potential effects of the local population of the Fitzroy River turtle.</p> <p>Design and implementation of a CEMP will further minimise risk to individuals and achieve protection of habitat, such that no long-term decrease in the size of the population is expected to occur.</p> <p>The impact area for all sites will be rehabilitated and additional measures will be implemented in both the construction and operation phases of the intake structure as site 23 to minimise effects to localised disturbance of habitat degradation with no direct impacts to individuals upon a known population of Fitzroy River turtle. It is therefore unlikely to lead to a long-term decrease in the size of a local population.</p>

Significant residual impact criteria	Assessment
Reduce the extent of occurrence of the species	<p>Unlikely</p> <p>The Fitzroy River turtle is known to occur throughout the upper reaches of the Fitzroy and associated tributaries. Suitable habitat for the species was present at site 23. At sites 22, 25, 31, and 32, the species is unlikely to occur. Works will be conducted at sites 22, 25, 31, and 32 during the dry season, therefore not effecting the extent of occurrence of the species.</p> <p>At site 23, a coffer dam or similar structure is proposed to be installed around the footprint of the intake structure works to create a dry works area. Fauna salvage will be undertaken within the construction area in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required. Flow and movement outside of the construction area will be maintained throughout construction.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrainment, minimising potential effects of the local population of the turtle. The works will be restricted temporarily to a small, localised area, with measures in place to ensure no long-term impacts to habitat. The population of Fitzroy River turtle will be maintain within, upstream and downstream of the site and therefore it is unlikely that a reduction of the extent of occurrence of the species will occur.</p>
Fragment an existing population	<p>Unlikely</p> <p>No existing population of Fitzroy River turtle occurs at sites 22, 25, 31, and 32, and therefore no fragmentation of an existing population will occur.</p> <p>Suitable habitat for the Fitzroy River turtle was recorded near site 23. A coffer dam or similar structure is proposed to be installed around the footprint of the intake structure works to create a dry works area. Fauna salvage will be undertaken within the construction area in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Flow and fauna movement will be maintained adjacent to the construction footprint, such that no fragmentation of the population will occur.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrainment, minimising potential effects of the local population of the Fitzroy River turtle. The works will be restricted temporarily to a small, localised area, with measures in place to avoid fragmentation of the species.</p> <p>Due to the localised and temporary nature of the construction impacts, no fragmentation of an existing population will occur.</p>
Result in genetically distinct populations forming as a result of habitat isolation	<p>Unlikely</p> <p>The project will not fragment the species population and therefore is unlikely to result in genetically distinct populations forming as a result of habitat isolation.</p>
Result in invasive species that are harmful to an endangered species becoming established in the endangered species' habitat	<p>Unlikely</p> <p>Construction activities have the potential to increase the presence of introduced weed and pest species that can degrade turtle nesting habitat suitability and predate upon turtle nests. The suitability of habitat at site 23 for turtle nesting is limited as a result of the density of riparian bank vegetation and bank substrate. Implementation of best practice weed and pest management techniques coupled with erosion and sediment management controls will reduce the likelihood of impacts to potential turtle nesting habitats. The management actions proposed for the control of weed and pest species are considered sufficient such that no significant impact to the Fitzroy River turtle and/or the species' habitat is likely to occur.</p>
Introduce disease that may cause the population to decline	<p>Unlikely</p> <p>There are no known diseases that this species is susceptible to or threatened by that proposed works have the potential to introduce. Therefore, it is considered unlikely that construction and operation of the intake structure and the waterway crossings will have the potential to introduce disease to the extent that the Fitzroy River turtle population will decline.</p>
Interfere with the recovery of the species	<p>Unlikely</p> <p>The main identified threats to the Fitzroy River turtle include loss and disturbance of habitat, damming of rivers, and pollution and siltation of rivers and creek habitats (EPA, 2007).</p> <p>There are no existing populations of Fitzroy River turtle at sites 22, 25, 31, and 32, measures including construction at these sites occurring during the dry season will ensure that the project does not interfere with the recovery of the species.</p>

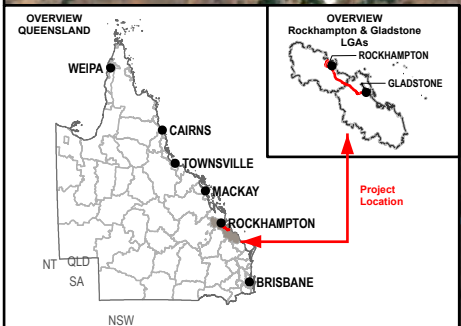
Significant residual impact criteria	Assessment
	<p>The species is known to occur throughout the Fitzroy River, including near site 23. The project potentially could cause incidence of adult mortality or injury and habitat degradation during construction.</p> <p>Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required. Fauna salvage will be undertaken within the construction area of this intake structure in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Works will be undertaken in accordance with DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018) and flow and fauna movement maintained adjacent to construction.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrainment, minimising potential effects of the local population of the Fitzroy River turtle.</p> <p>Design and implementation of a CEMP for the construction phase and an OEMP for the operational phase. OEMP is to include extraction monitoring to avoid habitat degradation.</p> <p>These measures will ensure that the project is unlikely to contribute to key threatening processes or interfere with recovery actions.</p>
Cause disruption to ecologically significant locations of a species	<p>Unlikely</p> <p>At sites 22, 25, 31, and 32, the Fitzroy River turtle is unlikely to occur due to a lack of available surface water. With no population existing within these sites, the project is not expected to cause disruption to ecologically significant locations of a species.</p> <p>The species is known to occur throughout the Fitzroy River including near site 23 and the site provides optimal foraging habitat. The works will be restricted to a small, localised area around the site with the duration of works to be less than 180 days. Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required.</p> <p>Design and implementation of a CEMP for the construction phase and an OEMP for the operational phase. OEMP is to include extraction monitoring to avoid habitat degradation.</p> <p>Works at this location will be designed so that the species cannot enter the construction zone whilst installation of the intake structure occurs. These measures result that the project is unlikely to cause disruption to ecologically significant locations of a species.</p>
Conclusion	<p>Due to the temporary nature of the construction works and restoration of any degradation of potential habitat, the project is not expected to have a significant residual impact on the Fitzroy River turtle.</p>



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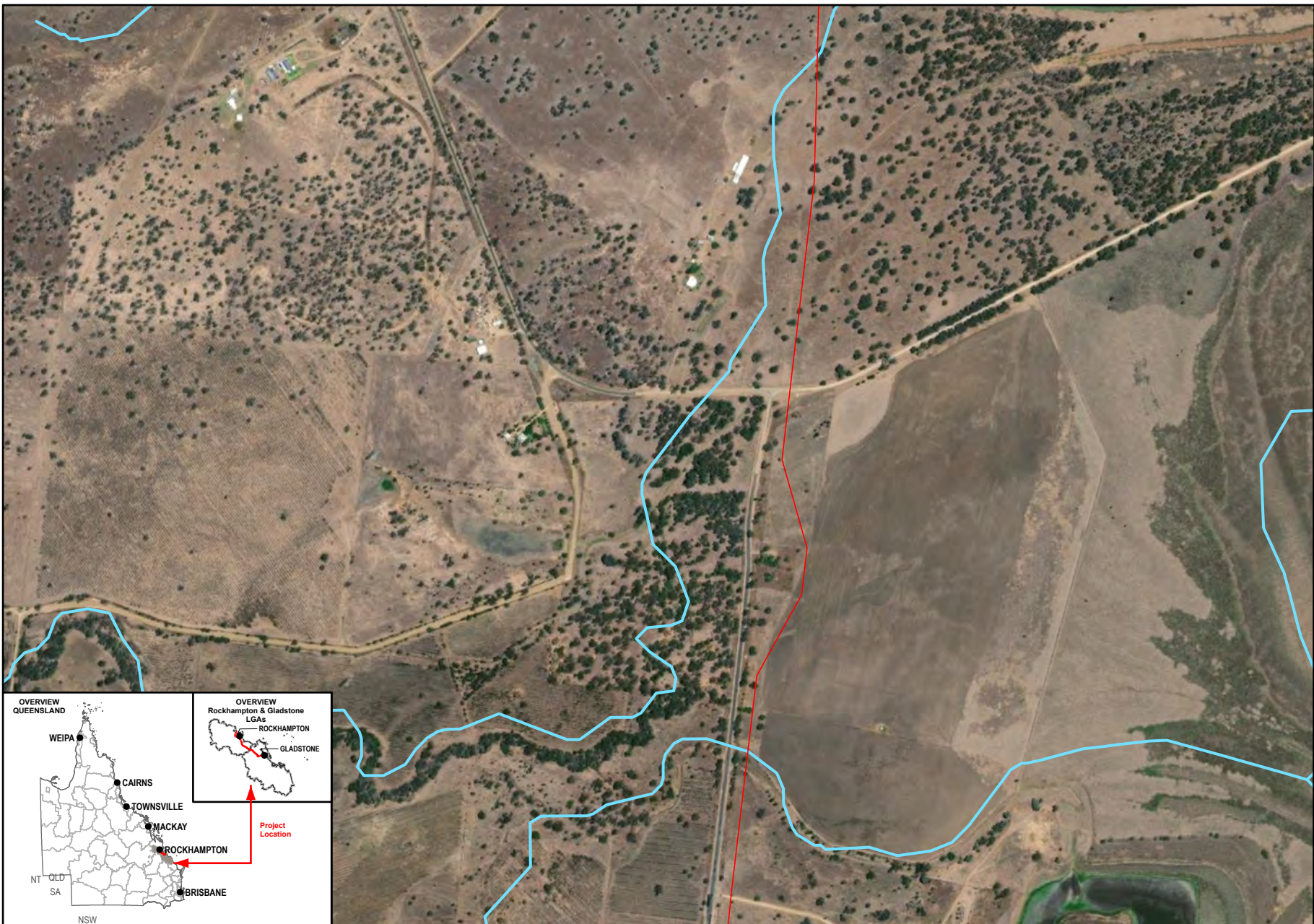
Legend

- Northern Section Pipeline Alignment
- Waterways



Data Sources:
 1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
 2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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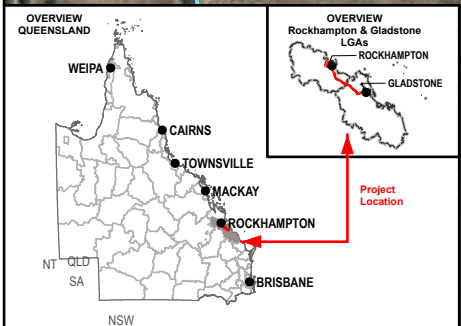
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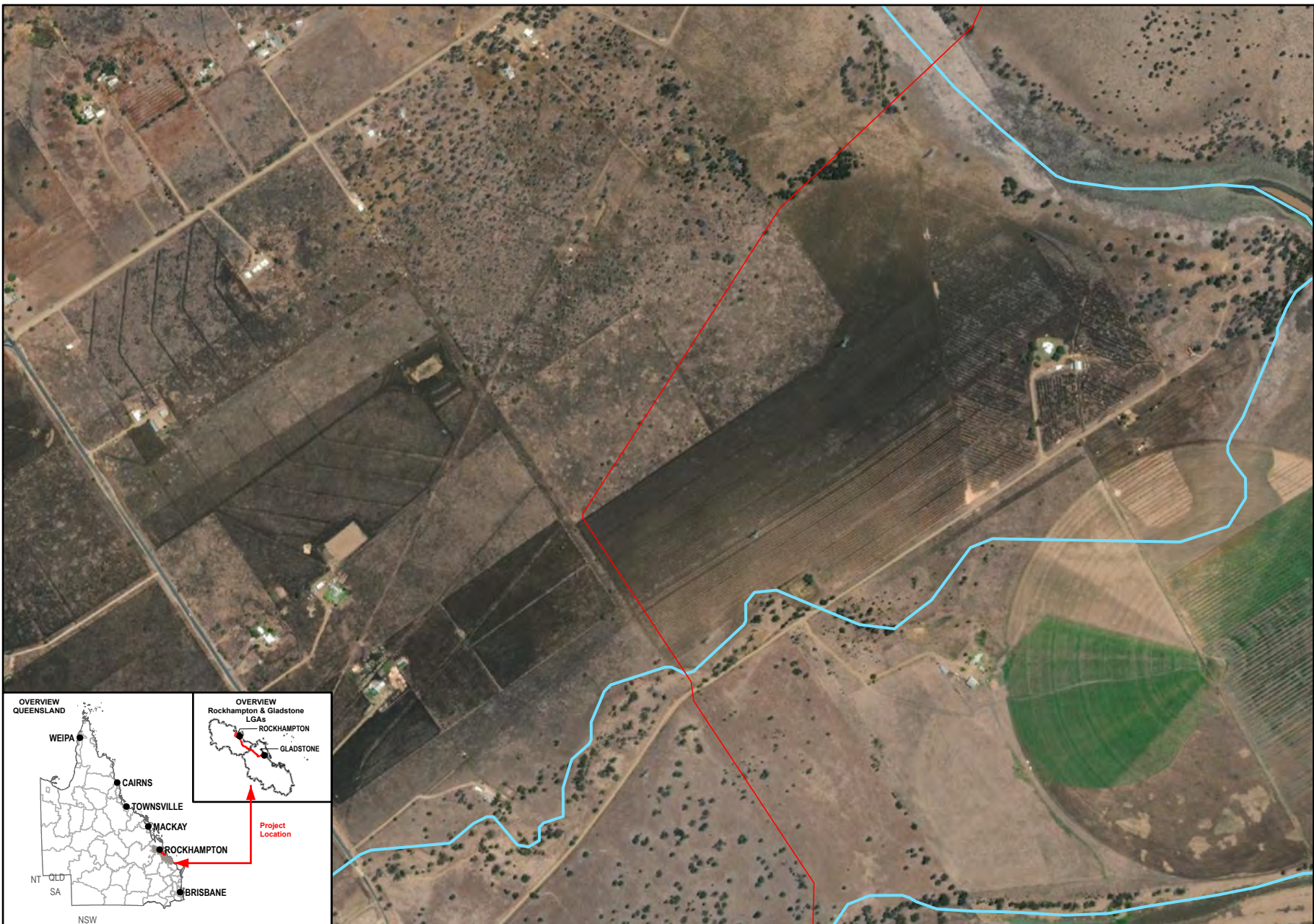
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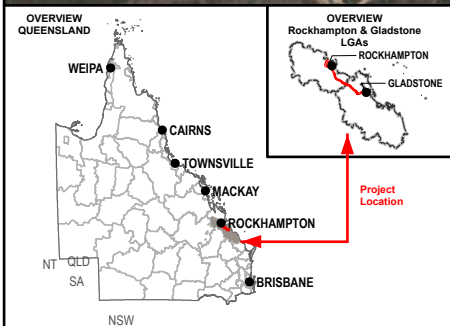




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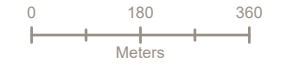
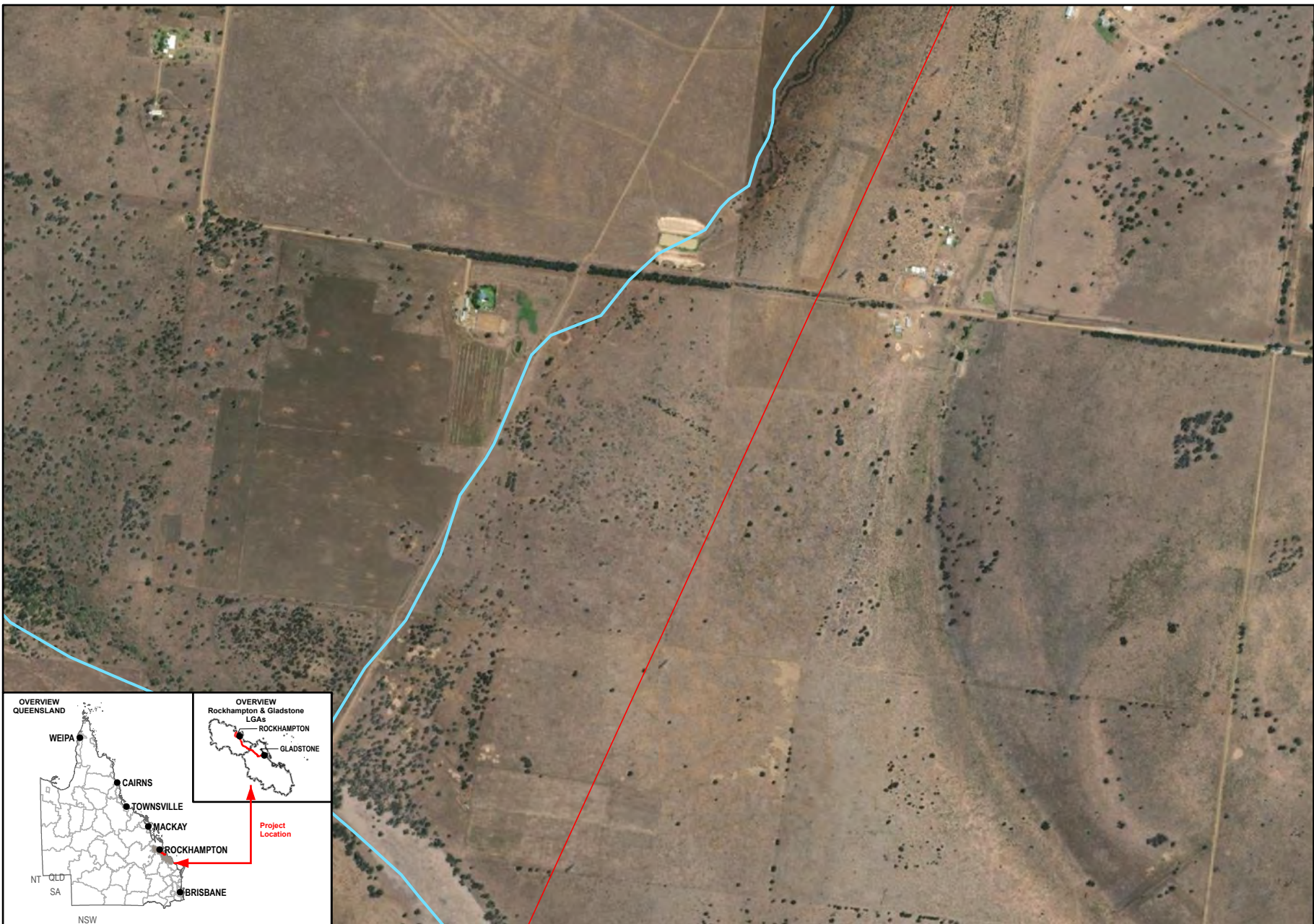
Legend

- Northern Section Pipeline Alignment
- Waterways



Data Sources:
 1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
 2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Legend

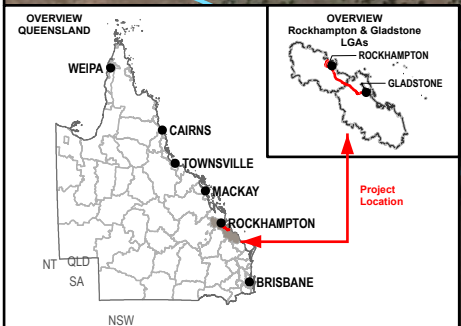
- Northern Section Pipeline Alignment
- Waterways

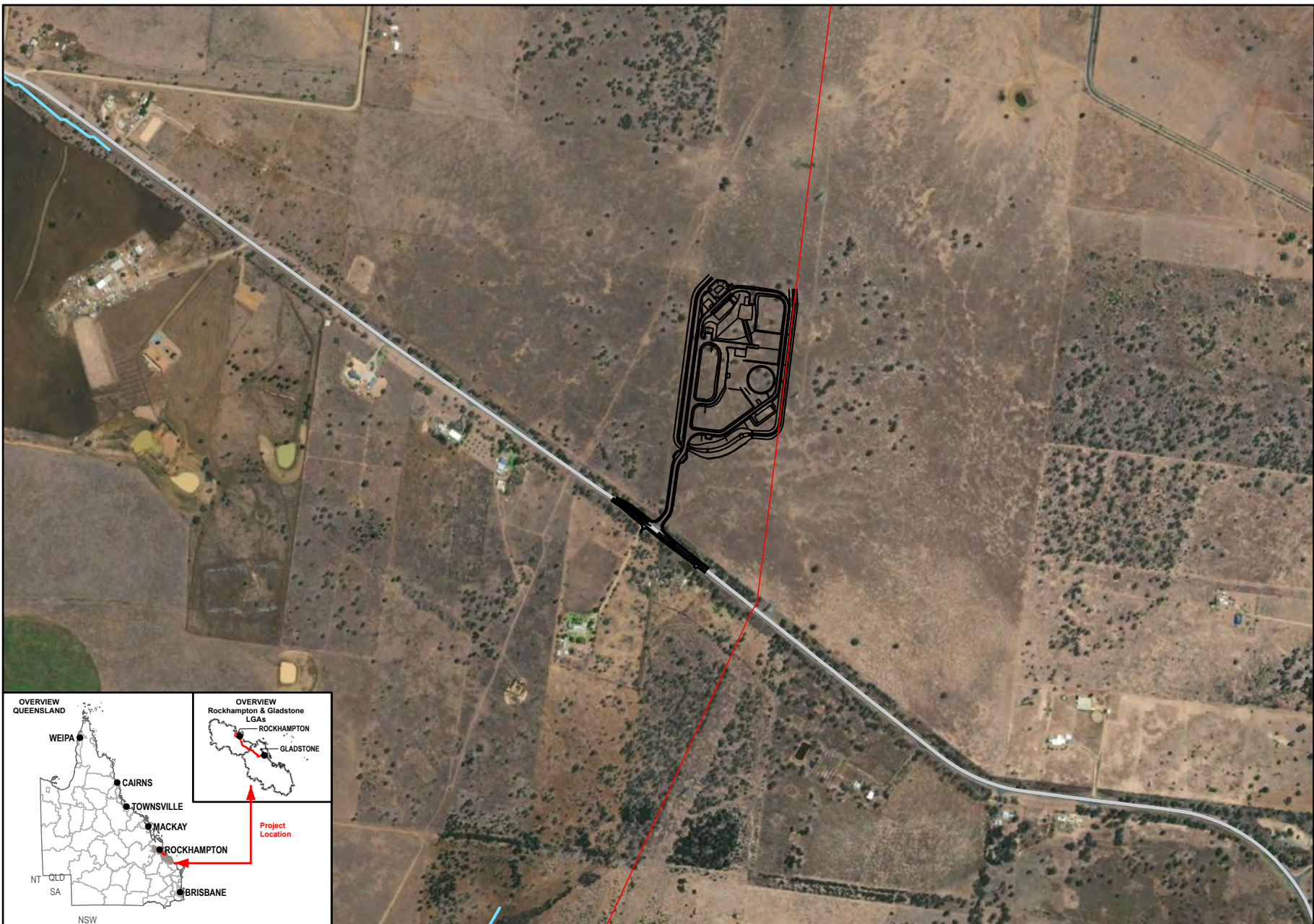
Data Sources:

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Member of the Surlana Jurong Group

Meters

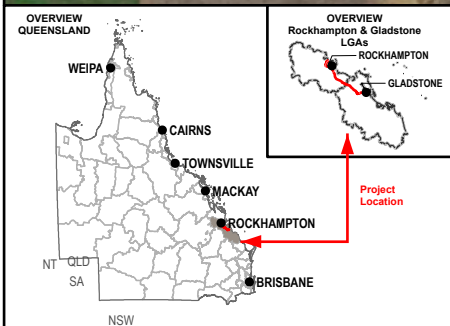
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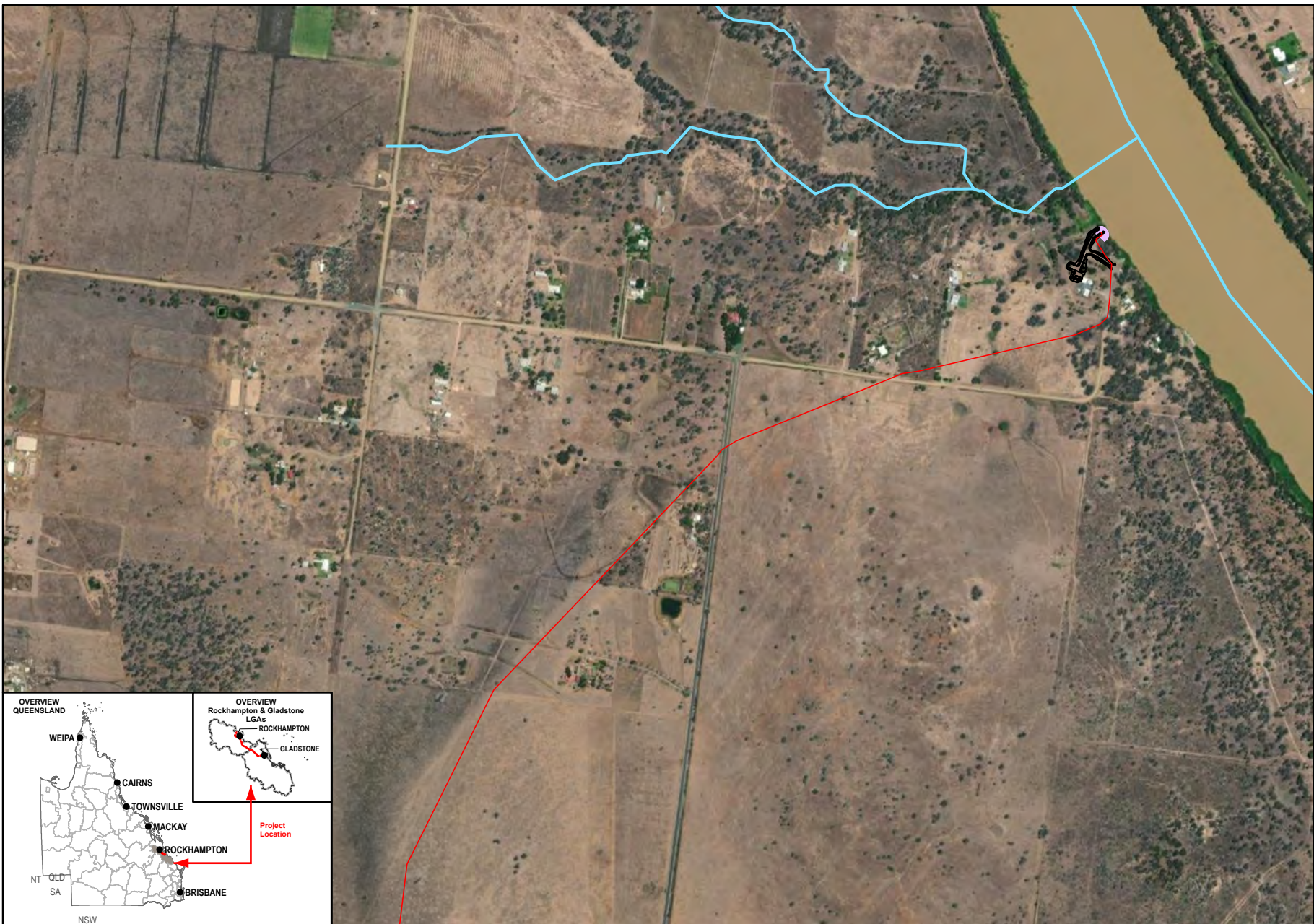
- Legend**
- Northern Section Pipeline Alignment
 - Alton Down WTP, Pump Station and Reservoir Layout
 - Waterways
 - Main Roads

Data Sources:

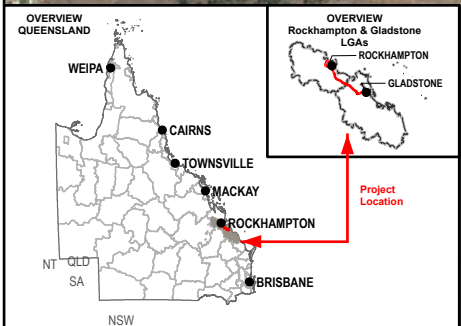
1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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- Legend**
- Northern Section Pipeline Alignment
 - Predicted Fitzroy River Turtle Habitat
 - Fitzroy River Intake and Pump Station Layout
 - Waterways



Data Sources:

1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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7.3.2 Significant Residual Impact on MSES values

To identify and quantify any significant impact on connectivity within the Northern Section pipeline alignment, the Landscape Fragmentation Tool (LFC) was used. The LFC tool performs a desktop assessment of proposed impacts on connectivity areas containing remnant vegetation and determines whether the prescribed activity will be significant with respect to the Queensland Environmental Offset Framework.

The following MSES values in this Section listed in the *Significant Residual Impact Guideline 2014* (DEHP 2014b) have been identified as having the potential to be impacted by the project. Note that potential impacts on MSES conservation significant species and their habitat have already been assessed above in Section 7.3.1. A summary of the significant residual impact assessments are provided in Table 7-49.

Table 7-49 Summary of the Northern Section residual impact assessments

Value	Is the residual impact significant?
Regulated vegetation	Likely
Connectivity areas	Unlikely
Wetlands and watercourses	Unlikely
Waterway providing for fish passage	Unlikely

7.3.2.1 Regulated vegetation

The project is likely to have a significant impact on regulated vegetation within the Northern Section pipeline alignment. A significant residual impact assessment is provided in Table 7-50.

Table 7-50 Significant residual impact assessment – regulated vegetation

Clearing in a regional ecosystem that is: endangered, or of concern	Clearing in the portion of a regional ecosystem that lies within a mapped wetland	Clearing in a regional ecosystem that is within the defined distance of a watercourse
Significant residual impact criteria		
For clearing for linear infrastructure: <ul style="list-style-type: none"> Greater than 25 m wide in a grassland (structural category) regional ecosystem; or Greater than 20 m wide in a sparse (structural category) regional ecosystem; or Greater than 10 m wide in a dense to mid-dense (structural category) regional ecosystem 	For clearing for linear infrastructure: <ul style="list-style-type: none"> Greater than 25 m wide in a grassland (structural category) regional ecosystem; or Greater than 20 m wide in a sparse (structural category) regional ecosystem; or Greater than 10 m wide in a dense to mid-dense (structural category) regional ecosystem. 	For clearing for linear infrastructure: <ul style="list-style-type: none"> Greater than 25 m wide in a grassland (structural category) regional ecosystem; or Greater than 20 m wide in a sparse (structural category) regional ecosystem; or Greater than 10 m wide in a dense to mid-dense (structural category) regional ecosystem.
	Clearing within 50 m of the defining bank.	Clearing within 5 m of the defining bank.
Assessment		
Significant <ul style="list-style-type: none"> Clearing greater than 10 m wide in a dense (structural category) endangered regional ecosystem and greater than 20 m wide in a sparse (structural category) of concern regional ecosystem is proposed to occur. Disturbance within 10 m to 30 m will be rehabilitated, leaving 10 m permanently cleared. 	Significant <ul style="list-style-type: none"> Clearing greater than 20 m wide in a sparse (structural category) regional ecosystem that lies within a mapped wetland is proposed to occur. Clearing within 50 m of the defining bank will also occur. Disturbance within 10 m to 30 m will be rehabilitated, leaving 10 m permanently cleared. 	Significant <ul style="list-style-type: none"> Clearing greater than 10 m wide in a dense (structural category) regional ecosystem and greater than 20 m wide in a sparse (structural category) regional ecosystem that are within the defined distance of a watercourse is proposed to occur. Clearing within 5 m of the defining bank will also occur. Disturbance within 10 m to 30 m will be rehabilitated, leaving 10 m permanently cleared. The disturbance within 5 m of a bank will be rehabilitated after construction as the

Clearing in a regional ecosystem that is: endangered, or of concern	Clearing in the portion of a regional ecosystem that lies within a mapped wetland	Clearing in a regional ecosystem that is within the defined distance of a watercourse
		pipeline is proposed to be buried under watercourses and associated bank vegetation.

7.3.2.2 Connectivity areas

The following significant residual impact criteria for the significant residual impact test for connectivity as listed in the *Significant Residual Impact Guideline 2014* (DEHP 2014b), have been assessed and the project is unlikely to have a significant impact on connectivity within the Northern Section pipeline alignment. A significant residual impact assessment of connectivity is provided in Table 7-51.

Table 7-51 Significant residual impact assessment – connectivity

Significant residual impact criteria	Assessment
Change in core remnant ecosystem extent at the local scale	Unlikely
Loss or fragmentation of core remnant ecosystem at the site scale	Unlikely

7.3.2.3 Wetlands and watercourses

The following significant residual impact criteria for wetlands and watercourses as listed in the *Significant Residual Impact Guideline 2014* (DEHP 2014b), have been assessed and the project is unlikely to have a significant impact on wetlands within the Northern Section pipeline alignment. A significant residual impact assessment is provided in Table 7-52.

Table 7-52 Significant residual impact assessment – wetlands and watercourses

Significant residual impact criteria	Assessment
Areas of the wetland or watercourse being destroyed or artificially modified;	<p>Unlikely</p> <p>The pipeline will intersect with two HES listed wetlands, located at sites 31 and 32. Within ephemeral watercourses, including the HES wetland at site 31, that are dry during construction, the pipelines will be constructed via trenching. There will be a temporary modification of the dry creek bed and banks during construction to clear vegetation within the pipeline trenching footprint which will cause a temporary disturbance. However, it is expected that after construction, the ephemeral watercourse beds and banks within the footprint will be rehabilitated back to their natural state within 180 days.</p> <p>Where works occur in ephemeral habitats, additional controls for the protection of habitat and flow will be implemented. These measures will include scheduling works during the dry season to avoid increased mobilisation or erosion and sedimentation and avoid key fish migration and spawning periods. Works in wetted waterways will be undertaken in accordance with the DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018), and any approval conditions, to avoid impacts to flow and fauna movement within the wetland.</p> <p>Construction will involve microtunneling through wetted areas at the HES wetland at site 32 habitat areas intersecting the pipeline.</p> <p>Fitzroy River is a major risk waterway within the Northern Section pipeline alignment at site 23. Works at this site include the intake structure which will involve the localised disturbance of the bed and bank. A coffer dam or similar structure is proposed to be installed around the footprint of the intake structure works to create a dry works area. Flow and movement outside of the construction area will be maintained throughout construction.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for entrapment, minimising potential effects of the local population of the estuarine crocodile. An OEMP will be designed for the operational phase with water extraction to be monitored in accordance with licence conditions to avoid habitat degradation.</p>

Significant residual impact criteria	Assessment
<p>A measurable change in water quality of the wetland or watercourse—for example a change in the level of the physical and/or chemical characteristics of the water, including salinity, pollutants, or nutrients in the wetland or watercourse, to a level that exceeds the water quality guidelines for the waters; or</p>	<p>Unlikely</p> <p>There are two HES wetlands that intersect the Northern Section pipeline alignment. The Northern Section pipeline alignment has been positioned to avoid impacts on HES wetlands and water courses where possible. The water quality of the two HES wetlands watercourses that intersect the Northern Section pipeline alignment are unlikely to undergo a measurable change in water quality due to their ephemeral nature. Construction in these areas will occur during the dry season when there is no water present and returned to its natural state.</p> <p>For mapped wetlands and waterways that contain water at the time of construction, methods will consist of various trenchless construction methods to minimise impacts to the habitat and water quality.</p> <p>A CEMP, including erosion and sediment control will be designed for protection of water quality. Within ephemeral watercourses that are dry during construction, the pipelines will be constructed via trenching. There will be a temporary modification of the dry creek bed and banks during construction to clear vegetation within the pipeline trenching footprint which will cause a temporary disturbance. However, it is expected that after construction, the watercourse beds and banks within the footprint will be rehabilitated back to their natural state with no residual impact. Pipelines will be constructed via trenchless construction methods for any wetted watercourse intersecting the Northern Section pipeline alignment.</p> <p>The water quality of watercourses that intersect the Northern Section pipeline alignment are unlikely to undergo a measurable change in water quality.</p> <p>Fitzroy River is a major risk waterway within the Northern Section pipeline alignment at site 23. Works at this site include the intake structure which will involve the localised disturbance of the bed and bank. The CEMP at this location which includes erosion and sediment control measures for effective management of the cofferdam, and the control of hazardous materials such as fuels and oils, will be designed for protection of water quality.</p>
<p>The habitat or lifecycle of native species, including invertebrate fauna and fish species, dependent upon the wetland being seriously affected; or</p>	<p>Unlikely</p> <p>The habitats or lifecycles of native species that are dependent on the waterway are unlikely to be seriously affected by the project. The Northern Section pipeline alignment has been positioned to avoid impacts to HES wetlands and high ecological waterways where possible. Within ephemeral watercourses and the HES wetland, construction will occur during the dry season and the pipelines will be constructed via trenching. There will be a temporary modification of the dry creek bed and banks during construction to clear vegetation within the pipeline trenching footprint which will cause a temporary disturbance. However, it is expected that after construction, the watercourse beds and banks within the footprint will be rehabilitated back to their natural state with no residual impact.</p> <p>Construction will involve microtunneling through wetted areas at the HES wetland and at site 32 habitat areas intersecting the pipeline and have no impacts upon the species within the wetland.</p> <p>Where works occur in wetted habitats, additional controls for the protection of habitat and flow including short duration of works outside of key migration or breeding periods will occur, these works will be localised and unlikely to disrupt the lifecycles of native species.</p>
<p>A substantial and measurable change in the hydrological regime or recharge zones of the wetland, e.g. a substantial change to the volume, timing, duration and frequency of ground and surface water flows to and within the wetland; or</p>	<p>Unlikely</p> <p>No substantial or measurable change in the hydrological regime or recharge zones of the wetland is expected to occur.</p> <p>The Northern Section pipeline alignment has been positioned to avoid impacts to HES wetlands and high ecological waterways where possible. Within ephemeral watercourses and the HES wetland at site 31, construction will occur during the dry season and the pipelines will be constructed via trenching.</p> <p>Where works occur in wetted habitats including site 32, additional controls for the protection of habitat and flow including short duration of works these works will be localised and unlikely to disrupt flow within the waterbody. Works in wetted waterways will be undertaken in accordance with the DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018), and any approval conditions, and will allow for continued or facilitated movements.</p>
<p>An invasive species that is harmful to the environmental values of the wetland being established (or an existing</p>	<p>Unlikely</p> <p>Establishment of an invasive species that is harmful to the environmental values of the wetland is unlikely to occur as a result of this project.</p> <p>Site-specific Weed and Pest Management Plan in accordance with relevant legislation and plans will be implemented that outlines protocols to prevent the introduction of weed and pest</p>

Significant residual impact criteria	Assessment
invasive species being spread) in the wetland.	species into the construction area and minimise the spread of declared weeds and pests within the project footprint.

7.3.2.4 Waterway providing for fish passage

The following significant residual impact criteria for waterways providing for fish passage as listed in the *Significant Residual Impact Guideline 2014* (DEHP 2014b), have been assess and the project is unlikely to have a significant impact on waterway providing for fish passage within the Northern Section pipeline alignment. A significant residual impact assessment is provided in Table 7-53.

Table 7-53 Significant residual impact assessment – waterway providing for fish passage

Significant residual impact criteria	Assessment
Result in the mortality or injury of fish; or	<p>Unlikely</p> <p>It is considered unlikely that the proposed pipeline works will result in the mortality or injury of fish. Construction will occur during the dry season within ephemeral waterways thereby avoiding injury and mortality.</p> <p>Construction will involve microtunneling through wetted areas at the HES wetland at site 32 habitat areas intersecting the pipeline and will avoid impacts to the waterways and fish community. If trenching construction is required within a waterway supporting aquatic fauna, then fauna salvage will occur in accordance with DAF Fish Salvage Guidelines. A CEMP will be implemented to protect habitat quality downstream of construction.</p> <p>Works within the Northern Section pipeline alignment at site 23 include the intake structure at the Fitzroy River. Construction of the intake structure will involve a coffer dam or similar structure to be installed around the footprint of the intake structure works to create a dry works area. Fauna salvage will be undertaken within the construction area in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required.</p> <p>The intake structure will incorporate a design to prevent bed scour and reduce the potential for fish entrapment, and consequently mortality or injuries to fish.</p>
Result in conditions that substantially increase risks to the health, wellbeing and productivity of fish seeking passage such as through the depletion of fishes energy reserves, stranding, increased predation risks, entrapment or confined schooling behaviour in fish; or	<p>Unlikely</p> <p>It is considered unlikely that the proposed pipeline works will result in conditions that substantially increases the risks to the health, wellbeing and productivity of fish seeking passage. Key mitigation measures include construction during the dry season and will involve microtunneling through wetted areas at the HES wetland at site 32 habitat areas intersecting the pipeline at waterways that contain water at the time of construction.</p> <p>A CEMP will be implemented for the protection of habitat quality within and downstream of the construction footprints.</p> <p>Works within the Northern Section pipeline alignment at site 23 include the intake structure at the Fitzroy River. Construction of the intake structure will involve a coffer dam or similar structure to be installed around the footprint of the intake structure works to create a dry works area. Fauna salvage will be undertaken within the construction area in accordance with DAF Aquatic Fauna Salvage Guidelines to capture and relocate any trapped fauna from within the construction footprints. Pre-clearance surveys will be undertaken prior to the construction to identify risks to individuals and breeding habitat, and a high-risk SMP prepared if required.</p> <p>Works will be undertaken in accordance with DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018) with flow and fish passage maintained adjacent to the works.</p>
Reduce the extent, frequency or duration of fish passage previously found at a site; or	<p>Unlikely</p> <p>It is considered unlikely that the proposed pipeline works will reduce the extent, frequency or duration of fish passage within the Northern Section pipeline alignment. The location of the pipeline has been located to avoid and reduce impacts to permanent waterways.</p> <p>Construction will primarily occur within dry ephemeral waterways and no impacts to fish passage will occur.</p> <p>Construction will involve microtunneling through wetted areas at the HES wetland at site 32 habitat areas intersecting the pipeline and will avoid impacts to a waterbody and fish passage.</p>

Significant residual impact criteria	Assessment
	<p>Works within the Northern Section pipeline alignment at site 23 include the intake structure at the Fitzroy River. Construction of the intake structure will involve a coffer dam or similar structure to be installed around the footprint of the intake structure works to create a dry works area. Works will be undertaken in accordance with the DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018) and will allow for continued flow of water and fish passage around the construction area. Works will be undertaken in accordance with the DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018) and will allow for continued or facilitated movements.</p>
<p>Substantially modify, destroy or fragment areas of fish habitat (including, but not limited to in-stream vegetation, snags and woody debris, substrate, bank or riffle formations) necessary for the breeding and/or survival of fish; or</p>	<p>Unlikely</p> <p>It is considered unlikely that the proposed pipeline works will substantially modify, destroy or fragment areas of fish habitat within the Northern Section pipeline alignment. The location of the pipeline has been located to avoid and reduce impacts to permanent waterways.</p> <p>Open trench construction methods will primarily occur within dry ephemeral waterways in which there will be a temporary modification of the dry creek bed and banks which will cause a temporary disturbance. However, it is expected that after construction, the watercourse beds and banks, along with other fish habitats within the footprint will be rehabilitated back to their natural state with no residual impact.</p> <p>Construction will involve microtunneling through wetted areas at the HES wetland at site 32 habitat areas intersecting the pipeline will be used to further avoid direct impacts to fish, fish movement and habitat quality.</p> <p>Works within the Northern Section pipeline alignment at site 23 include the intake structure at the Fitzroy River. Construction of the intake structure will involve a coffer dam or similar structure to be installed around the footprint of the intake structure works to create a dry works area. The CEMP at this location which includes erosion and sediment control and measures for effective management of the cofferdam will be designed for the protection of fish habitat. These works will be localised and unlikely to substantially modify, destroy or fragment area of fish habitat.</p>
<p>Result in a substantial and measurable change in the hydrological regime of the waterway, for example, a substantial change to the volume, depth, timing, duration and frequency of flows; or</p>	<p>Unlikely</p> <p>It is considered unlikely that the proposed pipeline works will substantially change the hydrological regime of the waterways within the Northern Section pipeline alignment.</p> <p>Construction will primarily occur within dry ephemeral waterways and not impact upon the hydrological regime of these waterways. Waterways containing water at the time of construction, trenchless construction methods will be used to further avoid direct impacts to fish, fish movement and habitat quality. Works in wetted waterways will be undertaken in accordance with the DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018), and any approval conditions and is unlikely to impact the hydrological regime of the waterways. Works within the Northern Section pipeline alignment at site 23 include the intake structure at the Fitzroy River. Construction of the intake structure will involve a coffer dam or similar structure to be installed around the footprint of the intake structure works to create a dry works area. Works will be undertaken in accordance with the DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018) and will allow for continued flow of water around the construction area.</p>
<p>Lead to significant changes in water quality parameters such as temperature, dissolved oxygen, PH and conductivity that provide cues for movement in local fish species.</p>	<p>Unlikely</p> <p>It is considered unlikely that the proposed pipeline works will lead to significant changes in water quality parameters within the Northern Section pipeline alignment. The location of the pipeline has been located to avoid and reduce impacts to permanent waterways.</p> <p>Construction will primarily occur within dry ephemeral waterways and not impact upon the water quality within these waterways. Mapped wetlands and waterways that contain water at the time of construction will utilise various trenchless construction methods that will avoid impacts to water quality of the waterways.</p> <p>Construction will involve microtunneling through wetted areas at the HES wetland at site 32 habitat areas intersecting the pipeline will be used to further avoid direct changes to water quality parameters.</p> <p>Works within the Northern Section pipeline alignment at site 23 include the intake structure at the Fitzroy River. Construction of the intake structure will involve a coffer dam or similar structure to be installed around the footprint of the intake structure works to create a dry works area. Works will be undertaken in accordance with the DAF's 'ADR for operational work that is constructing or raising waterway barrier works' (DAF 2018) and will allow for continued flow of water around the construction area. A WQMP, as per the CEMP, will be developed to identify the potential for water quality degradation and allow for adaptive management if required for</p>

Significant residual impact criteria	Assessment
	any potential discharge from the coffer dam. Therefore, works within the project are unlikely to impact upon water quality parameters and thereby not disrupt environmental cues for movement of local fish species.

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Appendices

Appendix A

Desktop search results



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 15/02/22 17:23:55

[Summary](#)

[Details](#)

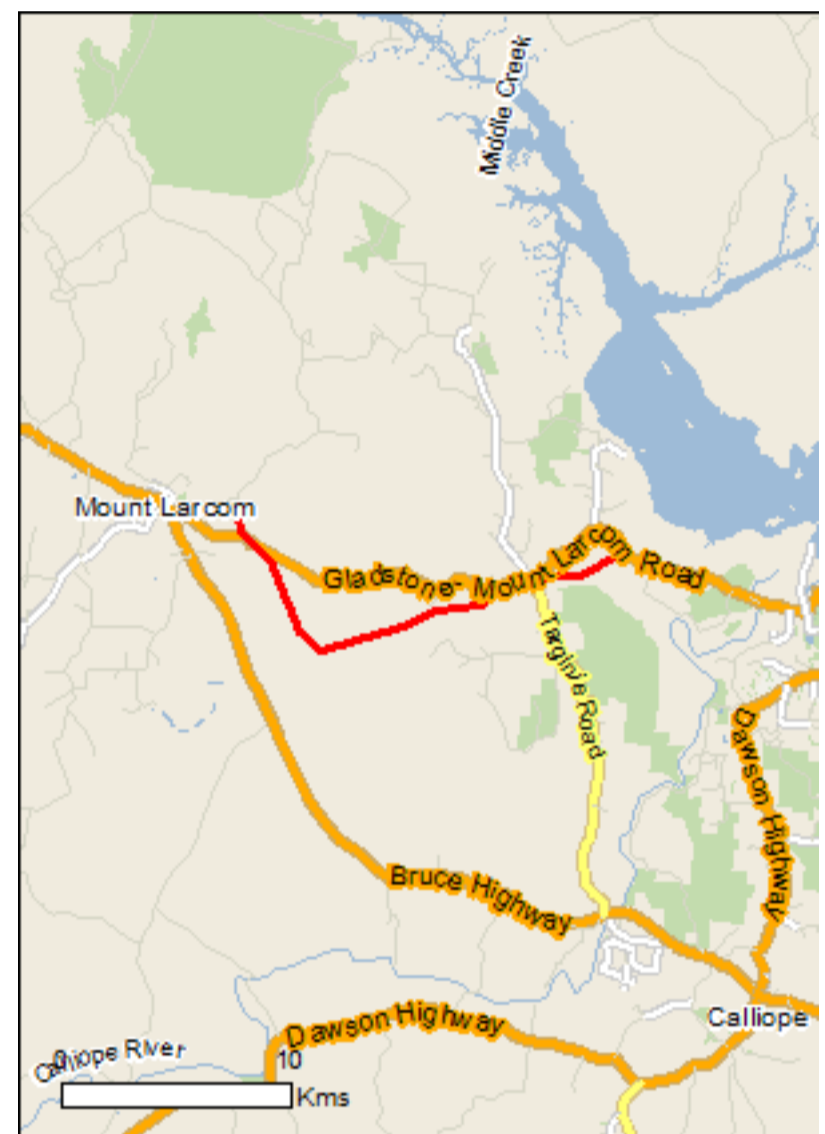
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

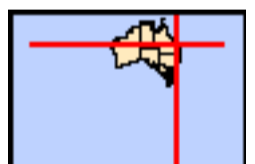
[Acknowledgements](#)



This map may contain data which are
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[Coordinates](#)

Buffer: 10.0Km



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

World Heritage Properties:	1
National Heritage Places:	1
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	9
Listed Threatened Species:	59
Listed Migratory Species:	60

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	1
Commonwealth Heritage Places:	None
Listed Marine Species:	101
Whales and Other Cetaceans:	12
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

State and Territory Reserves:	1
Regional Forest Agreements:	None
Invasive Species:	40
Nationally Important Wetlands:	2
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

World Heritage Properties		[Resource Information]
Name	State	Status
Great Barrier Reef	QLD	Declared property

National Heritage Properties		[Resource Information]
Name	State	Status
Natural		
Great Barrier Reef	QLD	Listed place

Listed Threatened Ecological Communities [Resource Information]

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Name	Status	Type of Presence
Coastal Swamp Oak (Casuarina glauca) Forest of New South Wales and South East Queensland ecological community	Endangered	Community may occur within area
Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland	Endangered	Community likely to occur within area
Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions	Endangered	Community may occur within area
Littoral Rainforest and Coastal Vine Thickets of Eastern Australia	Critically Endangered	Community likely to occur within area
Lowland Rainforest of Subtropical Australia	Critically Endangered	Community may occur within area
Poplar Box Grassy Woodland on Alluvial Plains	Endangered	Community may occur within area
Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions	Endangered	Community likely to occur within area
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area
Weeping Myall Woodlands	Endangered	Community may occur within area

Listed Threatened Species [Resource Information]

Name	Status	Type of Presence
Birds		
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Roosting known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area
Cyclopsitta diophthalma coxeni Coxen's Fig-Parrot [59714]	Endangered	Species or species habitat may occur within area

Name	Status	Type of Presence
Epthianura crocea macgregori Capricorn Yellow Chat, Yellow Chat (Dawson) [67090]	Critically Endangered	Species or species habitat may occur within area
Erythrotriorchis radiatus Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area
Fregetta grallaria grallaria White-bellied Storm-Petrel (Tasman Sea), White-bellied Storm-Petrel (Australasian) [64438]	Vulnerable	Species or species habitat likely to occur within area
Geophaps scripta scripta Squatter Pigeon (southern) [64440]	Vulnerable	Species or species habitat known to occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat likely to occur within area
Limosa lapponica baueri Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Neochmia ruficauda ruficauda Star Finch (eastern), Star Finch (southern) [26027]	Endangered	Species or species habitat likely to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area
Poephila cincta cincta Southern Black-throated Finch [64447]	Endangered	Species or species habitat may occur within area
Pterodroma neglecta neglecta Kermadec Petrel (western) [64450]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Turnix melanogaster Black-breasted Button-quail [923]	Vulnerable	Species or species habitat known to occur within area
Mammals		
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area
Chalinolobus dwyeri Large-eared Pied Bat, Large Pied Bat [183]	Vulnerable	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area
Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Nyctophilus corbeni Corben's Long-eared Bat, South-eastern Long-eared Bat [83395]	Vulnerable	Species or species habitat may occur within area
Petauroides volans Greater Glider [254]	Vulnerable	Species or species habitat known to occur within area
Phascolarctos cinereus (combined populations of Qld, NSW and the ACT) Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Endangered	Species or species habitat likely to occur within area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Xeromys myoides Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat known to occur within area
Plants		
Atalaya collina Yarwun Whitewood [55417]	Endangered	Species or species habitat known to occur within area
Bosistoa transversa Three-leaved Bosistoa, Yellow Satinheart [16091]	Vulnerable	Species or species habitat likely to occur within area
Bulbophyllum globuliforme Miniature Moss-orchid, Hoop Pine Orchid [6649]	Vulnerable	Species or species habitat likely to occur within area
Cossinia australiana Cossinia [3066]	Endangered	Species or species habitat likely to occur within area
Cupaniopsis shirleyana Wedge-leaf Tuckeroo [3205]	Vulnerable	Species or species habitat known to occur within area
Cycas megacarpa [55794]	Endangered	Species or species habitat known to occur within area
Cycas ophiolitica [55797]	Endangered	Species or species habitat may occur within area
Dichanthium setosum bluegrass [14159]	Vulnerable	Species or species habitat likely to occur within area
Eucalyptus raveretiana Black Ironbox [16344]	Vulnerable	Species or species habitat likely to occur within area
Macadamia integrifolia Macadamia Nut, Queensland Nut Tree, Smooth-shelled Macadamia, Bush Nut, Nut Oak [7326]	Vulnerable	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Marsdenia brevifolia [64585]	Vulnerable	Species or species habitat may occur within area
Parsonsia larcomensis Mt Larcom Silk Pod [64587]	Vulnerable	Species or species habitat known to occur within area
Phaius australis Lesser Swamp-orchid [5872]	Endangered	Species or species habitat likely to occur within area
Samadera bidwillii Quassia [29708]	Vulnerable	Species or species habitat known to occur within area
Reptiles		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Delma torquata Adorned Delma, Collared Delma [1656]	Vulnerable	Species or species habitat may occur within area
Denisonia maculata Ornamental Snake [1193]	Vulnerable	Species or species habitat likely to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Egernia rugosa Yakka Skink [1420]	Vulnerable	Species or species habitat may occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Furina dunmalli Dunmall's Snake [59254]	Vulnerable	Species or species habitat known to occur within area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Rheodytes leukops Fitzroy River Turtle, Fitzroy Tortoise, Fitzroy Turtle, White-eyed River Diver [1761]	Vulnerable	Species or species habitat may occur within area
Sharks		
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding may occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area

Listed Migratory Species

[[Resource Information](#)]

* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
Migratory Marine Birds		
Anous stolidus Common Noddy [825]		Species or species habitat known to occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat likely to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Sternula albifrons Little Tern [82849]		Species or species habitat may occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Migratory Marine Species		
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Dugong dugon Dugong [28]		Species or species habitat known to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area

Name	Threatened	Type of Presence
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat may occur within area
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Orcaella heinsohni Australian Snubfin Dolphin [81322]		Species or species habitat likely to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding may occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Breeding known to occur within area
Migratory Terrestrial Species		
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat likely to occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area
Monarcha trivirgatus Spectacled Monarch [610]		Species or species habitat known to occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Arenaria interpres Ruddy Turnstone [872]		Roosting known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Roosting known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Calidris ruficollis Red-necked Stint [860]		Roosting known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Roosting known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area
Gallinago megala Swinhoe's Snipe [864]		Roosting likely to occur within area
Gallinago stenura Pin-tailed Snipe [841]		Roosting likely to occur within area
Limicola falcinellus Broad-billed Sandpiper [842]		Roosting known to occur within area
Limnodromus semipalmatus Asian Dowitcher [843]		Species or species habitat may occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Limosa limosa Black-tailed Godwit [845]		Roosting known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting likely to occur within area
Numenius phaeopus Whimbrel [849]		Roosting known to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Pluvialis fulva Pacific Golden Plover [25545]		Roosting known to occur within area
Pluvialis squatarola Grey Plover [865]		Roosting known to occur within area
Tringa brevipes Grey-tailed Tattler [851]		Roosting known to occur

Name	Threatened	Type of Presence within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area
Xenus cinereus Terek Sandpiper [59300]		Roosting known to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land [\[Resource Information \]](#)

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Name
Defence - GLADSTONE ARES DEPOT

Listed Marine Species [\[Resource Information \]](#)

* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Anous stolidus Common Noddy [825]		Species or species habitat known to occur within area
Anseranas semipalmata Magpie Goose [978]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Arenaria interpres Ruddy Turnstone [872]		Roosting known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Roosting known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Calidris ruficollis Red-necked Stint [860]		Roosting known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Roosting known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area
Charadrius ruficapillus Red-capped Plover [881]		Roosting known to occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat likely to occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area
Gallinago megala Swinhoe's Snipe [864]		Roosting likely to occur within area
Gallinago stenura Pin-tailed Snipe [841]		Roosting likely to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Heteroscelus brevipes Grey-tailed Tattler [59311]		Roosting known to occur within area
Himantopus himantopus Pied Stilt, Black-winged Stilt [870]		Roosting known to occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat likely to occur within area
Limicola falcinellus Broad-billed Sandpiper [842]		Roosting known to occur within area
Limnodromus semipalmatus Asian Dowitcher [843]		Species or species habitat may occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Limosa limosa Black-tailed Godwit [845]		Roosting known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur

Name	Threatened	Type of Presence within area
Monarcha trivirgatus Spectacled Monarch [610]		Species or species habitat known to occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting likely to occur within area
Numenius phaeopus Whimbrel [849]		Roosting known to occur within area
Pachyptila turtur Fairy Prion [1066]		Species or species habitat likely to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Pluvialis fulva Pacific Golden Plover [25545]		Roosting known to occur within area
Pluvialis squatarola Grey Plover [865]		Roosting known to occur within area
Recurvirostra novaehollandiae Red-necked Avocet [871]		Roosting known to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
Sterna albifrons Little Tern [813]		Species or species habitat may occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area
Xenus cinereus Terek Sandpiper [59300]		Roosting known to occur within area
Fish		
Acentronura tentaculata Shortpouch Pygmy Pipehorse [66187]		Species or species habitat may occur within area
Campichthys tryoni Tryon's Pipefish [66193]		Species or species habitat may occur within area
Choeroichthys brachysoma Pacific Short-bodied Pipefish, Short-bodied		Species or species

Name	Threatened	Type of Presence
Pipefish [66194]		habitat may occur within area
Corythoichthys amplexus Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area
Corythoichthys flavofasciatus Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area
Corythoichthys haematopterus Reef-top Pipefish [66201]		Species or species habitat may occur within area
Corythoichthys intestinalis Australian Messmate Pipefish, Banded Pipefish [66202]		Species or species habitat may occur within area
Corythoichthys ocellatus Orange-spotted Pipefish, Ocellated Pipefish [66203]		Species or species habitat may occur within area
Corythoichthys paxtoni Paxton's Pipefish [66204]		Species or species habitat may occur within area
Corythoichthys schultzi Schultz's Pipefish [66205]		Species or species habitat may occur within area
Doryrhamphus excisus Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area
Festucalex cinctus Girdled Pipefish [66214]		Species or species habitat may occur within area
Filicampus tigris Tiger Pipefish [66217]		Species or species habitat may occur within area
Halicampus dunckeri Red-hair Pipefish, Duncker's Pipefish [66220]		Species or species habitat may occur within area
Halicampus grayi Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
Halicampus nitidus Glittering Pipefish [66224]		Species or species habitat may occur within area
Halicampus spinirostris Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
Hippichthys cyanospilos Blue-speckled Pipefish, Blue-spotted Pipefish [66228]		Species or species habitat may occur within area
Hippichthys heptagonus Madura Pipefish, Reticulated Freshwater Pipefish [66229]		Species or species habitat may occur within area
Hippichthys penicillus Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area
Hippocampus bargibanti Pygmy Seahorse [66721]		Species or species habitat may occur within

Name	Threatened	Type of Presence area
Hippocampus kuda Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
Hippocampus planifrons Flat-face Seahorse [66238]		Species or species habitat may occur within area
Hippocampus zebra Zebra Seahorse [66241]		Species or species habitat may occur within area
Lissocampus runa Javelin Pipefish [66251]		Species or species habitat may occur within area
Micrognathus andersonii Anderson's Pipefish, Shortnose Pipefish [66253]		Species or species habitat may occur within area
Micrognathus brevirostris thorntail Pipefish, Thorn-tailed Pipefish [66254]		Species or species habitat may occur within area
Nannocampus pictus Painted Pipefish, Reef Pipefish [66263]		Species or species habitat may occur within area
Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area
Solenostomus paradoxus Ornate Ghostpipefish, Harlequin Ghost Pipefish, Ornate Ghost Pipefish [66184]		Species or species habitat may occur within area
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
Mammals		
Dugong dugon Dugong [28]		Species or species habitat known to occur within area
Reptiles		
Acalyptophis peronii Horned Seasnake [1114]		Species or species habitat may occur within area
Aipysurus duboisii Dubois' Seasnake [1116]		Species or species habitat may occur within area
Aipysurus eydouxii Spine-tailed Seasnake [1117]		Species or species habitat may occur within area
Aipysurus laevis Olive Seasnake [1120]		Species or species habitat may occur within area
Astrotia stokesii Stokes' Seasnake [1122]		Species or species

Name	Threatened	Type of Presence
Caretta caretta Loggerhead Turtle [1763]	Endangered	habitat may occur within area Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area
Disteira major Olive-headed Seasnake [1124]		Species or species habitat may occur within area
Emydocephalus annulatus Turtle-headed Seasnake [1125]		Species or species habitat may occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Hydrophis elegans Elegant Seasnake [1104]		Species or species habitat may occur within area
Lapemis hardwickii Spine-bellied Seasnake [1113]		Species or species habitat may occur within area
Laticauda colubrina a sea krait [1092]		Species or species habitat may occur within area
Laticauda laticaudata a sea krait [1093]		Species or species habitat may occur within area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area

Whales and other Cetaceans

[Resource Information]

Name	Status	Type of Presence
Mammals		
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within

Name	Status	Type of Presence area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area
Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Orcaella brevirostris Irrawaddy Dolphin [45]		Species or species habitat likely to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Breeding known to occur within area
Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Calliope	QLD

Invasive Species [[Resource Information](#)]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resources Audit, 2001.

Name	Status	Type of Presence
Birds		
Acridotheres tristis Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Anas platyrhynchos Mallard [974]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Lonchura punctulata Nutmeg Mannikin [399]		Species or species habitat likely to occur within area
Passer domesticus House Sparrow [405]		Species or species habitat likely to occur within area
Streptopelia chinensis Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Sturnus vulgaris Common Starling [389]		Species or species habitat likely to occur within area
Frogs		
Rhinella marina Cane Toad [83218]		Species or species habitat known to occur within area
Mammals		
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Equus caballus Horse [5]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Lepus capensis Brown Hare [127]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur

Name	Status	Type of Presence within area
Plants		
Acacia nilotica subsp. indica Prickly Acacia [6196]		Species or species habitat may occur within area
Anredera cordifolia Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643]		Species or species habitat likely to occur within area
Asparagus aethiopicus Asparagus Fern, Ground Asparagus, Basket Fern, Sprengi's Fern, Bushy Asparagus, Emerald Asparagus [62425]		Species or species habitat likely to occur within area
Asparagus africanus Climbing Asparagus, Climbing Asparagus Fern [66907]		Species or species habitat likely to occur within area
Asparagus plumosus Climbing Asparagus-fern [48993]		Species or species habitat likely to occur within area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Cryptostegia grandiflora Rubber Vine, Rubbervine, India Rubber Vine, India Rubbervine, Palay Rubbervine, Purple Allamanda [18913]		Species or species habitat likely to occur within area
Dolichandra unguis-cati Cat's Claw Vine, Yellow Trumpet Vine, Cat's Claw Creeper, Funnel Creeper [85119]		Species or species habitat likely to occur within area
Eichhornia crassipes Water Hyacinth, Water Orchid, Nile Lily [13466]		Species or species habitat likely to occur within area
Hymenachne amplexicaulis Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754]		Species or species habitat likely to occur within area
Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507]		Species or species habitat likely to occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		Species or species habitat likely to occur within area
Opuntia spp. Prickly Pears [82753]		Species or species habitat likely to occur within area
Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		Species or species habitat likely to occur within area
Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566]		Species or species habitat likely to occur within area
Prosopis spp. Mesquite, Algaroba [68407]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron & S.x reichardtii Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]		Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss,		Species or species

Name	Status	Type of Presence
Kariba Weed [13665]		habitat likely to occur within area
Vachellia nilotica Prickly Acacia, Blackthorn, Prickly Mimosa, Black Piquant, Babul [84351]		Species or species habitat likely to occur within area

Reptiles

Ramphotyphlops braminus Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat may occur within area
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Nationally Important Wetlands

[\[Resource Information \]](#)

Name	State
Port Curtis	QLD
The Narrows	QLD

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species distributions have been derived through a variety of methods. Where distributions are well known and if time permits, maps are derived using either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc) together with point locations and described habitat; or environmental modelling (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Coordinates

-23.82995 151.15804,-23.8377 151.14275,-23.83886 151.11827,-23.84847 151.10294,-23.85001 151.08596,-23.85586 151.07269,-23.8648 151.04089,-23.85736 151.03218,-23.83188 151.02061,-23.82119 151.0088,-23.81583 151.00803,-23.81237 151.00051

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- [-Natural history museums of Australia](#)
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- [-Other groups and individuals](#)

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact Us](#) page.

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WildNet Records Species List

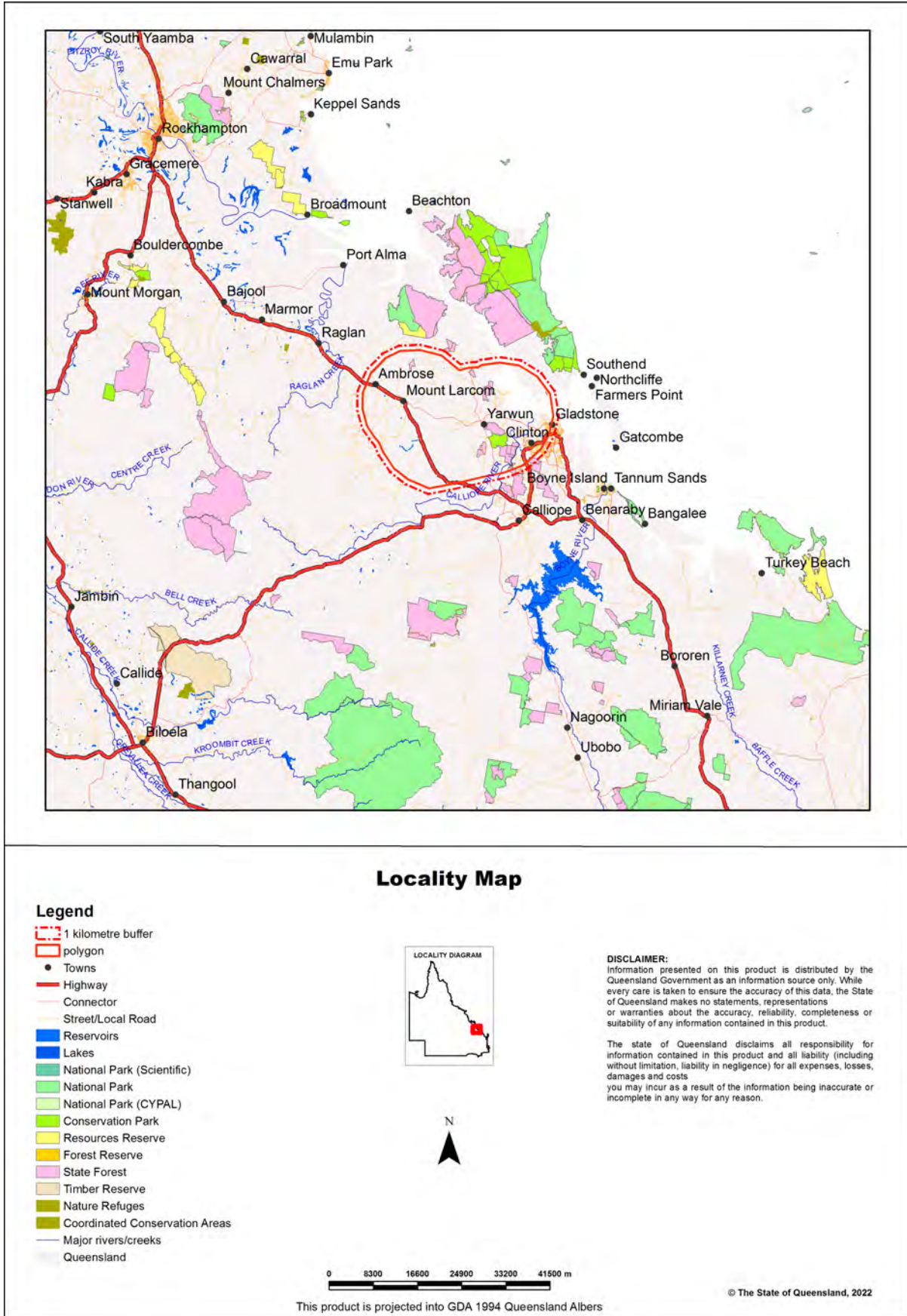


For the selected area of interest 69619.71ha

Current as at 11/03/2022

GSDASpecies

Map 1. Locality Map



Summary Information

The following table provides an overview of the area of interest .

Table 1. Area of interest details

Size (ha)	69,619.71
Local Government(s)	Gladstone Regional
Bioregion(s)	Brigalow Belt, Southeast Queensland
Subregion(s)	Burnett - Curtis Hills And Ranges, Mount Morgan Ranges, Marlborough Plains
Catchment(s)	Coral Sea, Boyne, Calliope, Curtis Island, Fitzroy

Protected Area(s)

The following estates and/or reserves are located in the area of interest:

Mount Maurice State Forest
 Beecher State Forest
 Mount Stowe State Forest
 Calliope Conservation Park
 Targinie State Forest
 Garden Island Conservation Park
 Mount Larcom State Forest

World Heritage Area(s)

The following World Heritage Areas are located in the area of interest:

Great Barrier Reef

Ramsar Area(s)

No Ramsar Areas are located within the area of interest.

Species List

Introduction

This report is derived from a spatial layer generated from the [WildNet database](#) managed by the Department of Environment and Science. The layer which is generated weekly contains the WildNet wildlife records that are not classed as erroneous or duplicate, that have a location precision equal to or less than 10000 metres and do not have a count of zero.

The WildNet dataset is constantly being enhanced and the taxonomic and status information revised. If a species is not listed in this report, it does not mean it doesn't occur there and listed species may also no longer inhabit the area. It is recommended that you also access other internal and external data sources for species information in your area of interest (Refer Links and Support).

Table 2 lists the animals recorded within the area of interest and its one kilometre buffer.

Table 3 lists the plants recorded within the area of interest and its one kilometre buffer.

Table 4 lists the fungi recorded within the area of interest and its one kilometre buffer.

Table 5 lists the other species recorded within the area of interest and its one kilometre buffer.

Table 2. Animals recorded within the area of interest and its one kilometre buffer

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
26896	Actinopterygii	Ambassidae	<i>Ambassis agassizii</i>	Agassiz's glassfish	None	None	0	33	20/01/2016

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
26910	Actinopterygii	Anguillidae	<i>Anguilla reinhardtii</i>	longfin eel	None	None	0	6	09/03/2015
26912	Actinopterygii	Apogonidae	<i>Glossamia aprion</i>	mouth almighty	None	None	0	10	20/01/2016
26920	Actinopterygii	Atherinidae	<i>Craterocephalus stercusmuscarum</i>	flyspecked hardyhead	None	None	0	19	20/01/2016
26925	Actinopterygii	Centropomidae	<i>Lates calcarifer</i>	barramundi	None	None	0	5	20/01/2016
26941	Actinopterygii	Clupeidae	<i>Nematalosa erebi</i>	bony bream	None	None	0	7	30/11/1998
26952	Actinopterygii	Eleotridae	<i>Gobiomorphus australis</i>	striped gudgeon	None	None	0	2	31/01/1999
26954	Actinopterygii	Eleotridae	<i>Hypseleotris compressa</i>	empire gudgeon	None	None	0	20	20/01/2016
26955	Actinopterygii	Eleotridae	<i>Hypseleotris galii</i>	firetail gudgeon	None	None	0	9	20/01/2016
26957	Actinopterygii	Eleotridae	<i>Hypseleotris species 1</i>	Midgley's carp gudgeon	None	None	0	4	22/05/2014
18168	Actinopterygii	Eleotridae	<i>Mogurnda adspersa</i>	southern purplespotted gudgeon	None	None	0	6	20/01/2016
27011	Actinopterygii	Hemiramphidae	<i>Arrhamphus sclerolepis</i>	snubnose garfish	None	None	0	3	31/01/1999
27017	Actinopterygii	Kuhliidae	<i>Kuhlia rupestris</i>	jungle perch	None	None	0	3	31/03/1992
27020	Actinopterygii	Lutjanidae	<i>Lutjanus argenti maculatus</i>	mangrove jack	None	None	0	1	31/03/1999
27021	Actinopterygii	Megalopidae	<i>Megalops cyprinoides</i>	oxeye herring	None	None	0	1	31/01/1999
27029	Actinopterygii	Melanotaeniidae	<i>Melanotaenia splendida splendida</i>	eastern rainbowfish	None	None	0	35	20/01/2016
19524	Actinopterygii	Monodactylidae	<i>Monodactylus argenteus</i>	diamondfish	None	None	0	1	31/03/1999
27035	Actinopterygii	Mugilidae	<i>Mugil cephalus</i>	sea mullet	None	None	0	13	04/10/2014
27048	Actinopterygii	Plotosidae	<i>Neosilurus hyrtlii</i>	Hyrtl's catfish	None	None	0	1	08/04/2015
27055	Actinopterygii	Poeciliidae	<i>Gambusia holbrooki</i>	mosquitofish	None	None	0	16	08/04/2015
19548	Actinopterygii	Poeciliidae	<i>Poecilia reticulata</i>	guppy	None	None	0	4	31/01/1999
27059	Actinopterygii	Pseudomugilidae	<i>Pseudomugil signifer</i>	Pacific blue eye	None	None	0	4	20/01/2016
27064	Actinopterygii	Scatophagidae	<i>Scatophagus argus</i>	spotted scat	None	None	0	1	31/01/1999
27065	Actinopterygii	Scatophagidae	<i>Selenotoca multifasciata</i>	striped scat	None	None	0	3	31/03/1999
27083	Actinopterygii	Terapontidae	<i>Amniataba percoides</i>	barred grunter	None	None	0	2	20/01/2016
27089	Actinopterygii	Terapontidae	<i>Leiopotherapon unicolor</i>	spangled perch	None	None	0	16	08/04/2015
27097	Actinopterygii	Terapontidae	<i>Terapon jarbua</i>	crescent grunter	None	None	0	2	31/03/1999

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
716	Amphibia	Bufo	<i>Rhinella marina</i>	cane toad	None	None	0	116	18/11/2018
624	Amphibia	Hylidae	<i>Cyclorana alboguttata</i>	greenstripe frog	C	None	0	6	31/07/2017
617	Amphibia	Hylidae	<i>Litoria balatus</i>	slender bleating tree frog	C	None	1	5	04/02/2010
627	Amphibia	Hylidae	<i>Litoria caerulea</i>	common green treefrog	C	None	0	39	20/11/2018
628	Amphibia	Hylidae	<i>Litoria chloris</i>	orange eyed treefrog	C	None	0	2	20/11/2017
608	Amphibia	Hylidae	<i>Litoria fallax</i>	eastern sedgefrog	C	None	0	26	18/11/2018
611	Amphibia	Hylidae	<i>Litoria gracilentia</i>	graceful treefrog	C	None	0	13	11/02/2015
612	Amphibia	Hylidae	<i>Litoria inermis</i>	bumpy rocketfrog	C	None	1	9	22/02/2012
614	Amphibia	Hylidae	<i>Litoria latopalmata</i>	broad palmed rocketfrog	C	None	1	17	06/10/2014
604	Amphibia	Hylidae	<i>Litoria nasuta</i>	striped rocketfrog	C	None	0	14	31/07/2017
596	Amphibia	Hylidae	<i>Litoria peronii</i>	emerald spotted treefrog	C	None	0	1	06/12/2011
599	Amphibia	Hylidae	<i>Litoria rothii</i>	northern laughing treefrog	C	None	0	8	18/03/2016
600	Amphibia	Hylidae	<i>Litoria rubella</i>	ruddy treefrog	C	None	4	25	26/02/2018
29174	Amphibia	Hylidae	<i>Litoria wilcoxii</i>	eastern stony creek frog	C	None	0	4	31/12/1999
679	Amphibia	Limnodynastidae	<i>Limnodynastes fletcheri</i>	barking frog	C	None	0	1	31/12/1999
681	Amphibia	Limnodynastidae	<i>Limnodynastes peronii</i>	striped marshfrog	C	None	0	16	06/12/2018
682	Amphibia	Limnodynastidae	<i>Limnodynastes salmini</i>	salmon striped frog	C	None	1	4	04/02/2010
684	Amphibia	Limnodynastidae	<i>Limnodynastes tasmaniensis</i>	spotted grassfrog	C	None	1	20	18/03/2016
673	Amphibia	Limnodynastidae	<i>Limnodynastes terraereginae</i>	scarlet sided pobblebonk	C	None	0	21	12/04/2017
680	Amphibia	Limnodynastidae	<i>Platyplectrum ornatum</i>	ornate burrowing frog	C	None	0	28	18/03/2016
695	Amphibia	Myobatrachidae	<i>Crinia deserticola</i>	chirping froglet	C	None	0	2	06/12/2011
659	Amphibia	Myobatrachidae	<i>Pseudophryne major</i>	great brown broodfrog	C	None	2	12	12/07/2010
661	Amphibia	Myobatrachidae	<i>Pseudophryne raveni</i>	copper backed broodfrog	C	None	2	5	11/01/2012
639	Amphibia	Myobatrachidae	<i>Uperoleia rugosa</i>	chubby gungan	C	None	0	7	23/12/2011
640	Amphibia	Myobatrachidae	<i>Uperoleia sp.</i>	None	C	None	0	1	06/12/2011
1422	Aves	Acanthizidae	<i>Acanthiza nana</i>	yellow thornbill	C	None	0	4	28/08/1999
1423	Aves	Acanthizidae	<i>Acanthiza pusilla</i>	brown thornbill	C	None	0	6	09/02/2007
1408	Aves	Acanthizidae	<i>Gerygone levigaster</i>	mangrove gerygone	C	None	0	12	01/09/2011

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1396	Aves	Acanthizidae	<i>Gerygone olivacea</i>	white-throated gerygone	C	None	0	13	15/02/2018
1397	Aves	Acanthizidae	<i>Gerygone palpebrosa</i>	fairy gerygone	C	None	0	13	06/10/2014
1382	Aves	Acanthizidae	<i>Sericornis frontalis</i>	white-browed scrubwren	C	None	0	8	12/02/2007
1371	Aves	Acanthizidae	<i>Smicronis brevirostris</i>	weebill	C	None	0	13	18/03/2016
1742	Aves	Accipitridae	<i>Accipiter cirrocephalus</i>	collared sparrowhawk	C	None	0	4	08/10/2000
1729	Aves	Accipitridae	<i>Accipiter fasciatus</i>	brown goshawk	C	None	0	8	21/01/2010
1730	Aves	Accipitridae	<i>Accipiter novaehollandiae</i>	grey goshawk	C	None	0	7	01/09/2011
1732	Aves	Accipitridae	<i>Aquila audax</i>	wedge-tailed eagle	C	None	0	16	15/02/2018
1721	Aves	Accipitridae	<i>Aviceda subcristata</i>	Pacific baza	C	None	0	13	15/02/2018
1722	Aves	Accipitridae	<i>Circus approximans</i>	swamp harrier	C	None	0	1	30/11/1989
1725	Aves	Accipitridae	<i>Elanus axillaris</i>	black-shouldered kite	C	None	0	15	03/10/2014
1718	Aves	Accipitridae	<i>Haliaeetus leucogaster</i>	white-bellied sea-eagle	C	None	0	45	19/12/2014
1720	Aves	Accipitridae	<i>Haliastur indus</i>	brahminy kite	C	None	1	71	13/03/2015
1707	Aves	Accipitridae	<i>Haliastur sphenurus</i>	whistling kite	C	None	0	94	15/02/2018
1710	Aves	Accipitridae	<i>Hieraaetus morphnoides</i>	little eagle	C	None	0	3	01/09/2011
1712	Aves	Accipitridae	<i>Lophoictinia isura</i>	square-tailed kite	C	None	0	10	07/12/2012
1714	Aves	Accipitridae	<i>Milvus migrans</i>	black kite	C	None	0	22	18/03/2016
1702	Aves	Accipitridae	<i>Pandion cristatus</i>	eastern osprey	SL	None	0	32	13/03/2015
1305	Aves	Acrocephalidae	<i>Acrocephalus australis</i>	Australian reed-warbler	C	None	0	7	18/03/2016
1973	Aves	Aegothelidae	<i>Aegotheles cristatus</i>	Australian owl-nightjar	C	None	0	29	03/07/2018
1652	Aves	Alaudidae	<i>Mirafra javanica</i>	Horsfield's bushlark	C	None	0	2	01/01/2006
1776	Aves	Alcedinidae	<i>Ceyx azureus</i>	azure kingfisher	C	None	0	2	20/01/2016
1992	Aves	Anatidae	<i>Anas castanea</i>	chestnut teal	C	None	0	61	03/03/2010
1993	Aves	Anatidae	<i>Anas gracilis</i>	grey teal	C	None	0	9	18/10/2013
1998	Aves	Anatidae	<i>Anas superciliosa</i>	Pacific black duck	C	None	0	108	15/02/2018
1999	Aves	Anatidae	<i>Aythya australis</i>	hardhead	C	None	0	20	20/01/2016
2003	Aves	Anatidae	<i>Chenonetta jubata</i>	Australian wood duck	C	None	0	31	15/02/2018
2005	Aves	Anatidae	<i>Cygnus atratus</i>	black swan	C	None	0	45	20/01/2016

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1977	Aves	Anatidae	<i>Dendrocygna arcuata</i>	wandering whistling-duck	C	None	0	9	06/02/2007
1978	Aves	Anatidae	<i>Dendrocygna eytoni</i>	plumed whistling-duck	C	None	0	3	18/03/2016
1982	Aves	Anatidae	<i>Nettapus coromandelianus</i>	cotton pygmy-goose	C	None	0	4	20/01/2016
1983	Aves	Anatidae	<i>Nettapus pulchellus</i>	green pygmy-goose	C	None	0	1	19/09/2001
1989	Aves	Anatidae	<i>Radjah radjah</i>	radjah shelduck	C	None	0	7	22/02/2018
1279	Aves	Anhingidae	<i>Anhinga novaehollandiae</i>	Australasian darter	C	None	0	50	16/01/2015
1963	Aves	Anseranatidae	<i>Anseranas semipalmata</i>	magpie goose	C	None	0	11	06/12/2011
1969	Aves	Apodidae	<i>Aerodramus terraereginae</i>	Australian swiftlet	C	None	0	1	09/11/1999
1965	Aves	Apodidae	<i>Apus pacificus</i>	fork-tailed swift	SL	None	0	1	09/11/1999
1971	Aves	Apodidae	<i>Hirundapus caudacutus</i>	white-throated needletail	V	V	0	4	31/12/1999
1829	Aves	Ardeidae	<i>Ardea alba modesta</i>	eastern great egret	C	None	0	59	14/12/2015
1831	Aves	Ardeidae	<i>Ardea intermedia</i>	intermediate egret	C	None	0	33	30/03/2006
1832	Aves	Ardeidae	<i>Ardea pacifica</i>	white-necked heron	C	None	0	10	18/03/2016
1830	Aves	Ardeidae	<i>Bubulcus ibis</i>	cattle egret	C	None	0	4	09/04/2000
1839	Aves	Ardeidae	<i>Butorides striata</i>	striated heron	C	None	0	71	22/01/2016
1840	Aves	Ardeidae	<i>Egretta garzetta</i>	little egret	C	None	0	114	22/01/2016
1826	Aves	Ardeidae	<i>Egretta novaehollandiae</i>	white-faced heron	C	None	0	75	18/03/2016
1813	Aves	Ardeidae	<i>Egretta sacra</i>	eastern reef egret	C	None	4	17	04/05/2012
1816	Aves	Ardeidae	<i>Ixobrychus dubius</i>	Australian little bittern	C	None	0	2	05/11/1999
1815	Aves	Ardeidae	<i>Ixobrychus flavicollis</i>	black bittern	C	None	0	7	10/01/2013
1818	Aves	Ardeidae	<i>Nycticorax caledonicus</i>	nankeen night-heron	C	None	0	5	01/01/2006
1658	Aves	Artamidae	<i>Artamus cinereus</i>	black-faced woodswallow	C	None	0	4	15/02/2018
1659	Aves	Artamidae	<i>Artamus cyanopterus</i>	dusky woodswallow	C	None	0	2	09/11/1999
1660	Aves	Artamidae	<i>Artamus leucorhynchus</i>	white-breasted woodswallow	C	None	0	25	09/02/2012
1646	Aves	Artamidae	<i>Artamus minor</i>	little woodswallow	C	None	0	1	31/12/1999
1649	Aves	Artamidae	<i>Artamus superciliosus</i>	white-browed woodswallow	C	None	0	1	31/12/1973
1654	Aves	Artamidae	<i>Cracticus nigrogularis</i>	pied butcherbird	C	None	0	51	18/03/2016
1656	Aves	Artamidae	<i>Cracticus torquatus</i>	grey butcherbird	C	None	0	19	15/02/2018

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1644	Aves	Artamidae	<i>Gymnorhina tibicen</i>	Australian magpie	C	None	0	104	15/02/2018
1645	Aves	Artamidae	<i>Strepera graculina</i>	pied currawong	C	None	0	19	18/03/2016
22479	Aves	Artamidae	<i>Strepera graculina graculina</i>	pied currawong (eastern Australia)	C	None	0	1	25/06/2009
1956	Aves	Burhinidae	<i>Burhinus grallarius</i>	bush stone-curlew	C	None	0	15	15/02/2018
1958	Aves	Burhinidae	<i>Esacus magnirostris</i>	beach stone-curlew	V	None	0	31	22/01/2016
1191	Aves	Cacatuidae	<i>Cacatua galerita</i>	sulphur-crested cockatoo	C	None	0	21	20/01/2016
1196	Aves	Cacatuidae	<i>Calyptorhynchus banksii</i>	red-tailed black-cockatoo	C	None	0	33	18/03/2016
1193	Aves	Cacatuidae	<i>Eolophus roseicapilla</i>	galah	C	None	0	26	15/02/2018
1173	Aves	Cacatuidae	<i>Nymphicus hollandicus</i>	cockatiel	C	None	0	2	08/06/1970
1636	Aves	Campephagidae	<i>Coracina novaehollandiae</i>	black-faced cuckoo-shrike	C	None	0	63	15/02/2018
1637	Aves	Campephagidae	<i>Coracina papuensis</i>	white-bellied cuckoo-shrike	C	None	0	23	18/03/2016
1639	Aves	Campephagidae	<i>Edolisoma tenuirostre</i>	common cicadabird	C	None	0	24	08/10/2014
1640	Aves	Campephagidae	<i>Lalage leucomela</i>	varied triller	C	None	0	18	18/03/2016
1975	Aves	Caprimulgidae	<i>Caprimulgus macrurus</i>	large-tailed nightjar	C	None	0	9	18/03/2016
1089	Aves	Casuariidae	<i>Dromaius novaehollandiae</i>	emu	C	None	0	6	15/02/2018
1948	Aves	Charadriidae	<i>Charadrius leschenaultii</i>	greater sand plover	V	V	0	4	25/03/2010
1936	Aves	Charadriidae	<i>Charadrius mongolus</i>	lesser sand plover	E	E	0	40	22/01/2016
1937	Aves	Charadriidae	<i>Charadrius ruficapillus</i>	red-capped plover	C	None	0	120	16/01/2015
1938	Aves	Charadriidae	<i>Charadrius sp.</i>	None	C	None	0	2	10/02/2012
1940	Aves	Charadriidae	<i>Euseyonis melanops</i>	black-fronted dotterel	C	None	0	41	15/02/2018
1944	Aves	Charadriidae	<i>Pluvialis fulva</i>	Pacific golden plover	SL	None	0	24	22/03/2012
1931	Aves	Charadriidae	<i>Pluvialis squatarola</i>	grey plover	SL	None	0	3	30/03/2006
27774	Aves	Charadriidae	<i>Vanellus miles</i>	masked lapwing	C	None	0	89	22/01/2016
1933	Aves	Charadriidae	<i>Vanellus miles novaehollandiae</i>	masked lapwing (southern subspecies)	C	None	0	33	15/02/2018
1820	Aves	Ciconiidae	<i>Ephippiorhynchus asiaticus</i>	black-necked stork	C	None	0	7	01/10/2014
1294	Aves	Cisticolidae	<i>Cisticola exilis</i>	golden-headed cisticola	C	None	0	21	18/03/2016

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1295	Aves	Cisticolidae	<i>Cisticola juncidis laveryi</i>	zitting cisticola	C	None	0	1	18/03/2016
1628	Aves	Climacteridae	<i>Climacteris picumnus</i>	brown treecreeper	C	None	0	4	18/03/2016
18293	Aves	Climacteridae	<i>Cormobates leucophaea metastasis</i>	white-throated treecreeper (southern)	C	None	0	5	14/02/2007
1801	Aves	Columbidae	<i>Chalcophaps longirostris</i>	Pacific emerald dove	C	None	0	4	28/02/1999
1804	Aves	Columbidae	<i>Columba livia</i>	rock dove	None	None	0	7	26/05/2007
1809	Aves	Columbidae	<i>Geopelia cuneata</i>	diamond dove	C	None	0	1	06/03/1993
1810	Aves	Columbidae	<i>Geopelia humeralis</i>	bar-shouldered dove	C	None	0	66	15/02/2018
18323	Aves	Columbidae	<i>Geopelia placida</i>	peaceful dove	C	None	0	65	15/02/2018
1785	Aves	Columbidae	<i>Geophaps scripta scripta</i>	squatter pigeon (southern subspecies)	V	V	0	35	15/02/2018
1787	Aves	Columbidae	<i>Leucosarcia melanoleuca</i>	wonga pigeon	C	None	0	3	28/02/1999
1789	Aves	Columbidae	<i>Lopholaimus antarcticus</i>	topknot pigeon	C	None	0	1	18/03/2016
1791	Aves	Columbidae	<i>Macropygia amboinensis</i>	brown cuckoo-dove	C	None	0	6	09/11/2017
1793	Aves	Columbidae	<i>Ocyphaps lophotes</i>	crested pigeon	C	None	0	36	15/02/2018
1795	Aves	Columbidae	<i>Phaps chalcoptera</i>	common bronzewing	C	None	0	6	06/12/2011
1771	Aves	Columbidae	<i>Ptilinopus regina</i>	rose-crowned fruit-dove	C	None	0	8	27/03/2015
1773	Aves	Columbidae	<i>Ptilinopus superbus</i>	superb fruit-dove	C	None	0	1	28/02/1999
1774	Aves	Columbidae	<i>Streptopelia chinensis</i>	spotted dove	None	None	0	2	23/12/2007
1779	Aves	Coraciidae	<i>Eurystomus orientalis</i>	dollarbird	C	None	0	27	15/02/2018
1603	Aves	Corcoracidae	<i>Corcorax melanorhamphos</i>	white-winged chough	C	None	0	25	18/03/2016
1608	Aves	Corvidae	<i>Corvus coronoides</i>	Australian raven	C	None	0	1	07/10/2001
1609	Aves	Corvidae	<i>Corvus orru</i>	Torresian crow	C	None	0	119	15/02/2018
1754	Aves	Cuculidae	<i>Cacomantis flabelliformis</i>	fan-tailed cuckoo	C	None	0	14	18/03/2016
1750	Aves	Cuculidae	<i>Cacomantis pallidus</i>	pallid cuckoo	C	None	0	3	09/02/2012
1743	Aves	Cuculidae	<i>Cacomantis variolosus</i>	brush cuckoo	C	None	0	7	01/09/2011
1751	Aves	Cuculidae	<i>Centropus phasianinus</i>	pheasant coucal	C	None	0	46	15/02/2018
1744	Aves	Cuculidae	<i>Chalcites basalis</i>	Horsfield's bronze-cuckoo	C	None	0	7	06/11/2014

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1745	Aves	Cuculidae	<i>Chalcites lucidus</i>	shining bronze-cuckoo	C	None	0	5	01/09/2011
1756	Aves	Cuculidae	<i>Chalcites minutillus barnardi</i>	Eastern little bronze-cuckoo	C	None	0	2	25/06/2009
1736	Aves	Cuculidae	<i>Cuculus optatus</i>	oriental cuckoo	SL	None	0	1	31/12/1997
1738	Aves	Cuculidae	<i>Eudynamys orientalis</i>	eastern koel	C	None	0	37	18/03/2016
1740	Aves	Cuculidae	<i>Scythrops novaehollandiae</i>	channel-billed cuckoo	C	None	0	40	18/03/2016
1601	Aves	Dicruridae	<i>Dicrurus bracteatus</i>	spangled drongo	C	None	0	50	15/02/2018
1366	Aves	Estrildidae	<i>Lonchura castaneothorax</i>	chestnut-breasted mannikin	C	None	0	9	15/03/2012
1367	Aves	Estrildidae	<i>Lonchura punctulata</i>	nutmeg mannikin	None	None	0	1	02/01/2004
1359	Aves	Estrildidae	<i>Neochmia temporalis</i>	red-browed finch	C	None	0	1	28/02/1999
1342	Aves	Estrildidae	<i>Taeniopygia bichenovii</i>	double-barred finch	C	None	0	44	15/02/2018
1949	Aves	Eurostopodidae	<i>Eurostopodus mystacalis</i>	white-throated nightjar	C	None	0	12	15/02/2018
1716	Aves	Falconidae	<i>Falco berigora</i>	brown falcon	C	None	0	6	18/03/2016
1704	Aves	Falconidae	<i>Falco cenchroides</i>	nankeen kestrel	C	None	0	32	15/02/2018
1691	Aves	Falconidae	<i>Falco longipennis</i>	Australian hobby	C	None	0	6	15/02/2018
1692	Aves	Falconidae	<i>Falco peregrinus</i>	peregrine falcon	C	None	0	3	01/09/2011
1678	Aves	Gruidae	<i>Antigone rubicunda</i>	brolga	C	None	0	8	20/01/2016
1925	Aves	Haematopodidae	<i>Haematopus fuliginosus</i>	sooty oystercatcher	C	None	1	6	23/03/2011
1926	Aves	Haematopodidae	<i>Haematopus longirostris</i>	Australian pied oystercatcher	C	None	0	94	22/01/2016
1766	Aves	Halcyonidae	<i>Dacelo leachii</i>	blue-winged kookaburra	C	None	0	23	18/03/2016
1767	Aves	Halcyonidae	<i>Dacelo novaeguineae</i>	laughing kookaburra	C	None	0	89	15/02/2018
1760	Aves	Halcyonidae	<i>Todiramphus macleayii</i>	forest kingfisher	C	None	0	53	15/02/2018
1762	Aves	Halcyonidae	<i>Todiramphus sanctus</i>	sacred kingfisher	C	None	0	23	20/01/2016
1759	Aves	Halcyonidae	<i>Todiramphus sordidus</i>	Torresian kingfisher	C	None	0	17	09/02/2012
1572	Aves	Hirundinidae	<i>Hirundo neoxena</i>	welcome swallow	C	None	0	61	15/02/2018
1585	Aves	Hirundinidae	<i>Petrochelidon ariel</i>	fairy martin	C	None	0	13	01/09/2011
1573	Aves	Hirundinidae	<i>Petrochelidon nigricans</i>	tree martin	C	None	0	12	15/02/2018

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1928	Aves	Jacaniidae	<i>Irediparra gallinacea</i>	comb-crested jacana	C	None	0	11	20/01/2016
18153	Aves	Laridae	<i>Anous minutus</i>	black noddy	C	None	0	3	11/02/2010
1919	Aves	Laridae	<i>Chlidonias hybrida</i>	whiskered tern	C	None	0	3	16/01/2015
1920	Aves	Laridae	<i>Chlidonias leucopterus</i>	white-winged black tern	SL	None	0	1	30/04/2013
1912	Aves	Laridae	<i>Chroicocephalus novaehollandiae</i>	silver gull	C	None	0	83	16/01/2015
1886	Aves	Laridae	<i>Gelochelidon nilotica</i>	gull-billed tern	SL	None	0	95	22/01/2016
1908	Aves	Laridae	<i>Gygis alba</i>	white tern	C	None	0	2	31/07/1981
1896	Aves	Laridae	<i>Hydroprogne caspia</i>	Caspian tern	SL	None	0	92	22/01/2016
1911	Aves	Laridae	<i>Larus dominicanus</i>	kelp gull	C	None	0	1	09/02/2012
1898	Aves	Laridae	<i>Onychoprion fuscatus</i>	sooty tern	C	None	0	6	31/03/2017
1899	Aves	Laridae	<i>Sterna hirundo</i>	common tern	SL	None	0	2	22/02/1997
1905	Aves	Laridae	<i>Sternula albifrons</i>	little tern	SL	None	0	3	01/09/1996
1907	Aves	Laridae	<i>Thalasseus bengalensis</i>	lesser crested tern	C	None	0	3	09/11/2012
1895	Aves	Laridae	<i>Thalasseus bergii</i>	crested tern	SL	None	0	43	22/01/2016
18458	Aves	Maluridae	<i>Malurus lamberti</i>	variegated fairy-wren	C	None	0	3	08/10/2014
1556	Aves	Maluridae	<i>Malurus lamberti sensu lato</i>	variegated fairy-wren	C	None	0	5	18/03/2016
1558	Aves	Maluridae	<i>Malurus melanocephalus</i>	red-backed fairy-wren	C	None	0	52	15/02/2018
1289	Aves	Megaluridae	<i>Cincloramphus timoriensis</i>	tawny grassbird	C	None	0	8	15/02/2018
1694	Aves	Megapodiidae	<i>Alectura lathami</i>	Australian brush-turkey	C	None	0	18	20/11/2017
1552	Aves	Meliphagidae	<i>Acanthagenys rufogularis</i>	spiny-cheeked honeyeater	C	None	0	2	31/12/1999
1523	Aves	Meliphagidae	<i>Caligavis chrysops</i>	yellow-faced honeyeater	C	None	0	13	08/10/2014
1539	Aves	Meliphagidae	<i>Entomyzon cyanotis</i>	blue-faced honeyeater	C	None	0	53	15/02/2018
1524	Aves	Meliphagidae	<i>Gavicalis fasciogularis</i>	mangrove honeyeater	C	None	0	30	17/01/2015
1517	Aves	Meliphagidae	<i>Lichenostomus melanops</i>	yellow-tufted honeyeater	C	None	0	3	28/02/1999
1497	Aves	Meliphagidae	<i>Lichmera indistincta</i>	brown honeyeater	C	None	0	87	18/03/2016
1500	Aves	Meliphagidae	<i>Manorina melanocephala</i>	noisy miner	C	None	0	55	15/02/2018

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1504	Aves	Meliphagidae	<i>Meliphaga lewinii</i>	Lewin's honeyeater	C	None	0	38	18/03/2016
1505	Aves	Meliphagidae	<i>Meliphaga notata</i>	yellow-spotted honeyeater	C	None	0	1	27/08/2014
1507	Aves	Meliphagidae	<i>Melithreptus albogularis</i>	white-throated honeyeater	C	None	0	65	18/03/2016
1483	Aves	Meliphagidae	<i>Melithreptus gularis</i>	black-chinned honeyeater	C	None	0	6	18/03/2016
1485	Aves	Meliphagidae	<i>Melithreptus lunatus</i>	white-naped honeyeater	C	None	0	10	18/03/2016
1488	Aves	Meliphagidae	<i>Myzomela obscura</i>	dusky honeyeater	C	None	0	11	18/03/2016
1489	Aves	Meliphagidae	<i>Myzomela sanguinolenta</i>	scarlet honeyeater	C	None	0	23	01/09/2011
1516	Aves	Meliphagidae	<i>Nesoptilotis leucotis</i>	white-eared honeyeater	C	None	0	2	01/12/2008
1493	Aves	Meliphagidae	<i>Philemon citreogularis</i>	little friarbird	C	None	0	40	18/03/2016
1494	Aves	Meliphagidae	<i>Philemon corniculatus</i>	noisy friarbird	C	None	0	75	18/03/2016
1482	Aves	Meliphagidae	<i>Phylidonyris niger</i>	white-cheeked honeyeater	C	None	0	1	05/11/1999
1471	Aves	Meliphagidae	<i>Plectorhyncha lanceolata</i>	striped honeyeater	C	None	0	4	09/11/1999
1513	Aves	Meliphagidae	<i>Ptilotula fusca</i>	fuscous honeyeater	C	None	0	1	31/12/1986
1764	Aves	Meropidae	<i>Merops ornatus</i>	rainbow bee-eater	C	None	0	56	15/02/2018
1594	Aves	Monarchidae	<i>Carterornis leucotis</i>	white-eared monarch	C	None	0	3	01/09/2011
1589	Aves	Monarchidae	<i>Grallina cyanoleuca</i>	magpie-lark	C	None	0	53	15/02/2018
1595	Aves	Monarchidae	<i>Monarcha melanopsis</i>	black-faced monarch	SL	None	0	6	01/12/2008
1598	Aves	Monarchidae	<i>Myiagra alecto</i>	shining flycatcher	C	None	0	4	16/12/2009
1599	Aves	Monarchidae	<i>Myiagra cyanoleuca</i>	satin flycatcher	SL	None	0	9	18/03/2016
1600	Aves	Monarchidae	<i>Myiagra inquieta</i>	restless flycatcher	C	None	0	8	07/11/2014
1586	Aves	Monarchidae	<i>Myiagra rubecula</i>	leaden flycatcher	C	None	0	51	18/03/2016
1597	Aves	Monarchidae	<i>Symposiachrus trivirgatus</i>	spectacled monarch	SL	None	0	10	27/08/2014
1455	Aves	Motacillidae	<i>Anthus novaeseelandiae</i>	Australasian pipit	C	None	0	24	06/11/2014
1451	Aves	Nectariniidae	<i>Cinnyris jugularis</i>	olive-backed sunbird	C	None	0	2	04/05/2012
1611	Aves	Nectariniidae	<i>Dicaeum hirundinaceum</i>	mistletoebird	C	None	0	39	15/02/2018
1453	Aves	Neositidae	<i>Daphoenositta chrysoptera</i>	varied sittella	C	None	0	7	01/09/2011

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1442	Aves	Oriolidae	<i>Oriolus sagittatus</i>	olive-backed oriole	C	None	0	21	01/09/2011
1444	Aves	Oriolidae	<i>Sphecotheres vieilloti</i>	Australasian figbird	C	None	0	50	15/02/2018
1680	Aves	Otididae	<i>Ardeotis australis</i>	Australian bustard	C	None	0	4	06/12/2011
1449	Aves	Pachycephalidae	<i>Colluricincla harmonica</i>	grey shrike-thrush	C	None	0	28	18/03/2016
1450	Aves	Pachycephalidae	<i>Colluricincla megarrhyncha</i>	little shrike-thrush	C	None	0	17	15/02/2018
1436	Aves	Pachycephalidae	<i>Pachycephala pectoralis</i>	golden whistler	C	None	0	7	01/09/2011
1437	Aves	Pachycephalidae	<i>Pachycephala rufiventris</i>	rufous whistler	C	None	0	43	18/03/2016
1415	Aves	Paradisaeidae	<i>Ptiloris paradiseus</i>	paradise riflebird	C	None	0	2	31/12/1984
1389	Aves	Pardalotidae	<i>Pardalotus punctatus</i>	spotted pardalote	C	None	0	9	26/10/2012
1392	Aves	Pardalotidae	<i>Pardalotus striatus</i>	striated pardalote	C	None	0	51	20/01/2016
1360	Aves	Passeridae	<i>Passer domesticus</i>	house sparrow	None	None	0	16	26/05/2007
1284	Aves	Pelecanidae	<i>Pelecanus conspicillatus</i>	Australian pelican	C	None	0	98	22/01/2016
1347	Aves	Petroicidae	<i>Eopsaltria australis</i>	eastern yellow robin	C	None	0	5	09/10/2014
1339	Aves	Petroicidae	<i>Microeca fascinans</i>	jacky winter	C	None	0	1	08/10/2014
1332	Aves	Petroicidae	<i>Petroica rosea</i>	rose robin	C	None	0	1	05/08/1997
1261	Aves	Phalacrocoracidae	<i>Microcarbo melanoleucos</i>	little pied cormorant	C	None	0	84	10/10/2014
1275	Aves	Phalacrocoracidae	<i>Phalacrocorax carbo</i>	great cormorant	C	None	0	3	01/01/2006
1263	Aves	Phalacrocoracidae	<i>Phalacrocorax sulcirostris</i>	little black cormorant	C	None	0	65	10/04/2013
1264	Aves	Phalacrocoracidae	<i>Phalacrocorax varius</i>	pied cormorant	C	None	0	49	13/03/2015
1699	Aves	Phasianidae	<i>Coturnix pectoralis</i>	stubble quail	C	None	0	1	05/11/1999
1690	Aves	Phasianidae	<i>Pavo cristatus</i>	Indian peafowl	None	None	0	1	31/12/1945
1698	Aves	Phasianidae	<i>Synoicus chinensis</i>	king quail	C	None	0	1	31/12/1999
1687	Aves	Phasianidae	<i>Synoicus ypsilophorus</i>	brown quail	C	None	0	14	18/03/2016
1326	Aves	Pittidae	<i>Pitta versicolor</i>	noisy pitta	C	None	0	2	28/02/1999
1955	Aves	Podargidae	<i>Podargus strigoides</i>	tawny frogmouth	C	None	0	43	15/02/2018
1260	Aves	Podicipedidae	<i>Poliiocephalus poliocephalus</i>	hoary-headed grebe	C	None	0	3	19/09/2001
1249	Aves	Podicipedidae	<i>Tachybaptus novaehollandiae</i>	Australasian grebe	C	None	0	21	18/03/2016

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1318	Aves	Pomatostomidae	<i>Pomatostomus temporalis</i>	grey-crowned babbler	C	None	0	27	07/10/2014
22463	Aves	Pomatostomidae	<i>Pomatostomus temporalis temporalis</i>	grey-crowned babbler (eastern)	C	None	0	1	25/06/2009
1180	Aves	Psittacidae	<i>Alisterus scapularis</i>	Australian king-parrot	C	None	0	10	21/11/2000
1182	Aves	Psittacidae	<i>Aprosmictus erythropterus</i>	red-winged parrot	C	None	0	13	04/10/2014
1145	Aves	Psittacidae	<i>Glossopsitta concinna</i>	musk lorikeet	C	None	0	2	05/11/1999
1147	Aves	Psittacidae	<i>Parvipsitta pusilla</i>	little lorikeet	C	None	0	23	29/03/2015
1136	Aves	Psittacidae	<i>Platycercus adscitus</i>	pale-headed rosella	C	None	0	50	15/02/2018
21976	Aves	Psittacidae	<i>Platycercus adscitus palliceps</i>	pale-headed rosella (southern form)	C	None	0	3	25/06/2009
1124	Aves	Psittacidae	<i>Trichoglossus chlorolepidotus</i>	scaly-breasted lorikeet	C	None	0	47	18/03/2016
1125	Aves	Psittacidae	<i>Trichoglossus moluccanus</i>	rainbow lorikeet	C	None	0	112	15/02/2018
1623	Aves	Psophodidae	<i>Psophodes olivaceus</i>	eastern whipbird	C	None	0	5	18/03/2016
1320	Aves	Ptilonorhynchidae	<i>Ptilonorhynchus violaceus</i>	satin bowerbird	C	None	0	1	28/02/1999
1686	Aves	Rallidae	<i>Fulica atra</i>	Eurasian coot	C	None	0	10	25/07/2013
1673	Aves	Rallidae	<i>Gallinula tenebrosa</i>	dusky moorhen	C	None	0	18	08/10/2014
1675	Aves	Rallidae	<i>Gallirallus philippensis</i>	buff-banded rail	C	None	0	3	27/03/2015
1670	Aves	Rallidae	<i>Lewinia pectoralis</i>	Lewin's rail	C	None	0	1	05/11/1999
1662	Aves	Rallidae	<i>Porphyrio melanotus</i>	purple swamphen	C	None	0	14	01/10/2014
1674	Aves	Rallidae	<i>Tribonyx ventralis</i>	black-tailed native-hen	C	None	0	1	09/11/1999
1893	Aves	Recurvirostridae	<i>Himantopus himantopus</i>	black-winged stilt	C	None	0	87	11/03/2013
1881	Aves	Recurvirostridae	<i>Recurvirostra novaehollandiae</i>	red-necked avocet	C	None	0	20	25/06/2009
1575	Aves	Rhipiduridae	<i>Rhipidura albiscapa</i>	grey fantail	C	None	0	30	18/03/2016
1576	Aves	Rhipiduridae	<i>Rhipidura leucophrys</i>	willie wagtail	C	None	0	44	15/02/2018
22466	Aves	Rhipiduridae	<i>Rhipidura leucophrys picata</i>	willie wagtail (northern)	C	None	0	1	25/06/2009
1578	Aves	Rhipiduridae	<i>Rhipidura rufifrons</i>	rufous fantail	SL	None	0	18	18/03/2016
1885	Aves	Scolopacidae	<i>Actitis hypoleucos</i>	common sandpiper	SL	None	0	20	22/03/2012

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1872	Aves	Scolopacidae	<i>Arenaria interpres</i>	ruddy turnstone	SL	None	0	3	04/09/1994
1874	Aves	Scolopacidae	<i>Calidris acuminata</i>	sharp-tailed sandpiper	SL	None	0	27	03/03/2010
1875	Aves	Scolopacidae	<i>Calidris alba</i>	sanderling	SL	None	0	2	30/03/2006
1877	Aves	Scolopacidae	<i>Calidris canutus</i>	red knot	E	E	0	7	08/02/2012
1863	Aves	Scolopacidae	<i>Calidris falcinellus</i>	broad-billed sandpiper	SL	None	0	3	05/11/1999
1878	Aves	Scolopacidae	<i>Calidris ferruginea</i>	curlew sandpiper	CR	CE	0	34	30/03/2006
1880	Aves	Scolopacidae	<i>Calidris ruficollis</i>	red-necked stint	SL	None	0	62	16/01/2015
1856	Aves	Scolopacidae	<i>Calidris tenuirostris</i>	great knot	CR	CE	0	9	27/01/2012
1857	Aves	Scolopacidae	<i>Gallinago hardwickii</i>	Latham's snipe	SL	None	0	2	18/03/2016
1867	Aves	Scolopacidae	<i>Limosa lapponica baueri</i>	Western Alaskan bar-tailed godwit	V	V	0	108	22/01/2016
1855	Aves	Scolopacidae	<i>Limosa limosa</i>	black-tailed godwit	SL	None	0	4	30/12/1997
1843	Aves	Scolopacidae	<i>Numenius mada gascariensis</i>	eastern curlew	E	CE	0	163	22/01/2016
1844	Aves	Scolopacidae	<i>Numenius minutus</i>	little curlew	SL	None	0	1	30/11/1989
1845	Aves	Scolopacidae	<i>Numenius phaeopus</i>	whimbrel	SL	None	0	184	22/01/2016
1860	Aves	Scolopacidae	<i>Tringa brevipes</i>	grey-tailed tattler	SL	None	0	41	01/10/2012
1861	Aves	Scolopacidae	<i>Tringa incana</i>	wandering tattler	SL	None	0	1	02/03/2010
1853	Aves	Scolopacidae	<i>Tringa nebularia</i>	common greenshank	SL	None	0	59	21/03/2011
1841	Aves	Scolopacidae	<i>Tringa stagnatilis</i>	marsh sandpiper	SL	None	0	37	18/03/2016
1827	Aves	Scolopacidae	<i>Xenus cinereus</i>	terek sandpiper	SL	None	0	47	22/01/2016
1102	Aves	Strigidae	<i>Ninox boobook</i>	southern boobook	C	None	0	38	06/04/2018
1101	Aves	Strigidae	<i>Ninox connivens</i>	barking owl	C	None	0	14	09/03/2017
1106	Aves	Strigidae	<i>Ninox sp.</i>	None	C	None	0	1	01/06/2013
1107	Aves	Strigidae	<i>Ninox strenua</i>	powerful owl	V	None	0	15	01/09/2011
1303	Aves	Sturnidae	<i>Sturnus vulgaris</i>	common starling	None	None	0	1	28/02/1999
1268	Aves	Sulidae	<i>Sula leucogaster</i>	brown booby	SL	None	0	1	05/11/1999
1822	Aves	Threskiornithidae	<i>Platalea flavipes</i>	yellow-billed spoonbill	C	None	0	2	08/10/2000
1823	Aves	Threskiornithidae	<i>Platalea regia</i>	royal spoonbill	C	None	0	36	21/01/2010
1825	Aves	Threskiornithidae	<i>Plegadis falcinellus</i>	glossy ibis	SL	None	0	2	30/03/2006
1812	Aves	Threskiornithidae	<i>Threskiornis molucca</i>	Australian white ibis	C	None	0	38	07/12/2012
1800	Aves	Threskiornithidae	<i>Threskiornis spinicollis</i>	straw-necked ibis	C	None	0	23	26/05/2007

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1276	Aves	Timaliidae	<i>Zosterops lateralis</i>	silveryeye	C	None	0	13	18/03/2016
1091	Aves	Turnicidae	<i>Turnix maculosus</i>	red-backed button-quail	C	None	0	2	06/12/2011
1092	Aves	Turnicidae	<i>Turnix melanogaster</i>	black-breasted button-quail	V	V	0	2	28/02/1999
1094	Aves	Turnicidae	<i>Turnix pyrrhotorax</i>	red-chested button-quail	C	None	0	1	06/12/2011
1081	Aves	Turnicidae	<i>Turnix varius</i>	painted button-quail	C	None	0	4	15/02/2007
1108	Aves	Tytonidae	<i>Tyto javanica</i>	eastern barn owl	C	None	0	3	15/02/2018
1109	Aves	Tytonidae	<i>Tyto longimembris</i>	eastern grass owl	C	None	0	1	15/02/2018
1096	Aves	Tytonidae	<i>Tyto novaehollandiae</i>	masked owl	C	None	0	1	04/05/2012
22620	Chondrichthyes	Dasyatidae	<i>Hemitygon fluviorum</i>	estuary stingray	NT	None	0	1	31/03/1999
9	Insecta	Lycaenidae	<i>Jalmenus eubulus</i>	pale imperial hairstreak	V	None	0	1	24/02/1981
34861	Malacostraca	Palaemonidae	<i>Macrobrachium</i> sp.	None	None	None	0	1	06/12/2011
930	Mammalia	Acrobatidae	<i>Acrobates pygmaeus</i>	feathertail glider	C	None	0	3	14/09/2017
1084	Mammalia	Bovidae	<i>Bos taurus</i>	European cattle	None	None	0	8	18/03/2016
1067	Mammalia	Canidae	<i>Canis familiaris</i>	dog	None	None	0	7	15/02/2018
1068	Mammalia	Canidae	<i>Canis familiaris (dingo)</i>	dingo	None	None	0	6	31/12/1999
1069	Mammalia	Canidae	<i>Canis</i> sp.	None	None	None	0	1	15/03/2012
1071	Mammalia	Canidae	<i>Vulpes vulpes</i>	red fox	None	None	0	8	15/02/2018
811	Mammalia	Dasyuridae	<i>Planigale maculata</i>	common planigale	C	None	0	14	22/02/2012
793	Mammalia	Dasyuridae	<i>Sminthopsis murina</i>	common dunnart	C	None	0	3	31/12/1999
1032	Mammalia	Delphinidae	<i>Sousa sahalensis</i>	Australian humpback dolphin	V	None	0	4	15/07/2015
22372	Mammalia	Delphinidae	<i>Tursiops aduncus</i>	Indo-Pacific bottlenose dolphin	C	None	0	3	31/12/1992
714	Mammalia	Dugongidae	<i>Dugong dugon</i>	dugong	V	None	0	2	31/12/1992
1006	Mammalia	Emballonuridae	<i>Saccolaimus flaviventris</i>	yellow-bellied sheathtail bat	C	None	0	26	03/07/2018
1010	Mammalia	Emballonuridae	<i>Taphozous australis</i>	coastal sheathtail bat	NT	None	0	3	11/02/2007
1012	Mammalia	Emballonuridae	<i>Taphozous</i> sp.	None	C	None	0	3	14/02/2007
1013	Mammalia	Emballonuridae	<i>Taphozous troughtoni</i>	Troughton's sheathtail bat	C	None	0	10	11/02/2007
814	Mammalia	Equidae	<i>Equus caballus</i>	horse	None	None	0	8	04/05/2012
1056	Mammalia	Felidae	<i>Felis catus</i>	cat	None	None	0	10	15/02/2018
832	Mammalia	Leporidae	<i>Lepus europaeus</i>	European brown hare	None	None	0	13	03/10/2014

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834	Mammalia	Leporidae	<i>Oryctolagus cuniculus</i>	rabbit	None	None	0	13	15/02/2018
901	Mammalia	Macropodidae	<i>Macropus giganteus</i>	eastern grey kangaroo	C	None	0	42	15/02/2018
906	Mammalia	Macropodidae	<i>Macropus sp.</i>	None	C	None	0	1	01/12/2008
912	Mammalia	Macropodidae	<i>Notamacropus agilis</i>	agile wallaby	C	None	0	7	18/03/2016
914	Mammalia	Macropodidae	<i>Notamacropus dorsalis</i>	black-striped wallaby	C	None	0	4	28/02/1999
902	Mammalia	Macropodidae	<i>Notamacropus parryi</i>	whiptail wallaby	C	None	0	27	15/02/2018
904	Mammalia	Macropodidae	<i>Notamacropus rufogriseus</i>	red-necked wallaby	C	None	0	3	06/10/2014
903	Mammalia	Macropodidae	<i>Osphranter robustus</i>	common wallaroo	C	None	0	2	31/12/1997
896	Mammalia	Macropodidae	<i>Thylogale stigmatica</i>	red-legged pademelon	C	None	0	2	28/02/1999
884	Mammalia	Macropodidae	<i>Thylogale thetis</i>	red-necked pademelon	C	None	0	1	05/08/1997
885	Mammalia	Macropodidae	<i>Wallabia bicolor</i>	swamp wallaby	C	None	0	21	01/09/2011
994	Mammalia	Megadermatidae	<i>Macroderma gigas</i>	ghost bat	E	V	0	1	30/06/1985
954	Mammalia	Miniopteridae	<i>Miniopterus australis</i>	little bent-wing bat	C	None	0	29	18/03/2016
955	Mammalia	Miniopteridae	<i>Miniopterus schreibersii oceanensis</i>	eastern bent-wing bat	C	None	0	14	06/12/2011
989	Mammalia	Molossidae	<i>Austronomus australis</i>	white-striped freetail bat	C	None	0	8	01/09/2011
996	Mammalia	Molossidae	<i>Chaerephon jobensis</i>	northern freetail bat	C	None	0	8	18/03/2016
998	Mammalia	Molossidae	<i>Mormopterus lumsdenae</i>	northern free-tailed bat	C	None	0	9	18/03/2016
1000	Mammalia	Molossidae	<i>Mormopterus norfolkensis</i>	east coast freetail bat	C	None	0	2	09/02/2007
22061	Mammalia	Molossidae	<i>Mormopterus ridei</i>	eastern free-tailed bat	C	None	0	5	18/03/2016
988	Mammalia	Molossidae	<i>Mormopterus sp.</i>	None	C	None	0	6	31/12/1999
767	Mammalia	Muridae	<i>Hydromys chrysogaster</i>	water rat	C	None	0	4	01/09/2011
772	Mammalia	Muridae	<i>Melomys burtoni</i>	grassland melomys	C	None	0	1	30/11/1989
759	Mammalia	Muridae	<i>Melomys cervinipes</i>	fawn-footed melomys	C	None	0	3	31/12/1999
761	Mammalia	Muridae	<i>Melomys sp.</i>	None	C	None	0	2	10/12/2012
764	Mammalia	Muridae	<i>Mus musculus</i>	house mouse	None	None	0	15	03/10/2014
749	Mammalia	Muridae	<i>Pseudomys gracilicaudatus</i>	eastern chestnut mouse	C	None	0	1	23/12/2011
741	Mammalia	Muridae	<i>Rattus fuscipes</i>	bush rat	C	None	0	1	17/11/2010
731	Mammalia	Muridae	<i>Rattus rattus</i>	black rat	None	None	0	6	06/10/2014

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
734	Mammalia	Muridae	<i>Rattus tunneyi</i>	pale field-rat	C	None	0	1	31/12/1997
724	Mammalia	Muridae	<i>Xeromys myoides</i>	water mouse	V	V	1	15	23/10/2014
784	Mammalia	Peramelidae	<i>Isodon macrourus</i>	northern brown bandicoot	C	None	0	21	15/02/2018
787	Mammalia	Peramelidae	<i>Perameles nasuta</i>	long-nosed bandicoot	C	None	0	1	30/11/1992
875	Mammalia	Petauridae	<i>Petaurus australis australis</i>	yellow-bellied glider (southern subspecies)	V	None	0	15	01/09/2011
879	Mammalia	Petauridae	<i>Petaurus norfolcensis</i>	squirrel glider	C	None	0	10	12/04/2017
36762	Mammalia	Petauridae	<i>Petaurus notatus</i>	Kreff's glider	C	None	0	10	15/02/2018
880	Mammalia	Petauridae	<i>Petaurus sp.</i>	None	C	None	0	1	01/12/2008
859	Mammalia	Phalangeridae	<i>Trichosurus vulpecula</i>	common brushtail possum	C	None	0	63	15/02/2018
860	Mammalia	Phascolarctidae	<i>Phascolarctos cinereus</i>	koala	V	E	0	9	18/03/2016
862	Mammalia	Potoroidae	<i>Aepyprymnus rufescens</i>	rufous bettong	C	None	0	17	18/03/2016
2455	Mammalia	Pseudocheiridae	<i>Petauroides armillatus</i>	central greater glider	E	V	0	30	02/10/2014
851	Mammalia	Pseudocheiridae	<i>Pseudocheirus peregrinus</i>	common ringtail possum	C	None	0	3	18/03/2016
984	Mammalia	Pteropodidae	<i>Pteropus alecto</i>	black flying-fox	C	None	0	28	11/01/2018
962	Mammalia	Pteropodidae	<i>Pteropus poliocephalus</i>	grey-headed flying-fox	C	V	0	8	02/10/2014
963	Mammalia	Pteropodidae	<i>Pteropus scapulatus</i>	little red flying-fox	C	None	0	17	31/03/2017
964	Mammalia	Pteropodidae	<i>Pteropus sp.</i>	None	C	None	0	1	08/04/2013
968	Mammalia	Rhinolophidae	<i>Rhinolophus megaphyllus</i>	eastern horseshoe-bat	C	None	0	1	01/10/2014
1080	Mammalia	Suidae	<i>Sus scrofa</i>	pig	None	None	0	4	15/02/2018
838	Mammalia	Tachyglossidae	<i>Tachyglossus aculeatus</i>	short-beaked echidna	SL	None	0	26	15/02/2018
972	Mammalia	Vespertilionidae	<i>Chalinolobus gouldii</i>	Gould's wattled bat	C	None	0	24	18/03/2016
973	Mammalia	Vespertilionidae	<i>Chalinolobus morio</i>	chocolate wattled bat	C	None	0	5	01/10/2014
961	Mammalia	Vespertilionidae	<i>Chalinolobus nigrogriseus</i>	hoary wattled bat	C	None	0	8	08/09/2008
948	Mammalia	Vespertilionidae	<i>Chalinolobus picatus</i>	little pied bat	C	None	0	11	09/10/2014
22066	Mammalia	Vespertilionidae	<i>Myotis macropus</i>	large-footed myotis	C	None	0	19	08/10/2014
946	Mammalia	Vespertilionidae	<i>Nyctophilus bifax</i>	northern long-eared bat	C	None	0	2	28/02/1999
935	Mammalia	Vespertilionidae	<i>Nyctophilus geoffroyi</i>	lesser long-eared bat	C	None	0	2	28/02/1999

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
936	Mammalia	Vespertilionidae	<i>Nyctophilus gouldi</i>	Gould's long-eared bat	C	None	0	2	06/02/2007
938	Mammalia	Vespertilionidae	<i>Nyctophilus sp.</i>	None	C	None	0	5	13/02/2007
943	Mammalia	Vespertilionidae	<i>Scoteanax rueppellii</i>	greater broad-nosed bat	C	None	0	6	13/02/2007
945	Mammalia	Vespertilionidae	<i>Scotorepens balstoni</i>	inland broad-nosed bat	C	None	0	2	01/10/2014
931	Mammalia	Vespertilionidae	<i>Scotorepens greyii</i>	little broad-nosed bat	C	None	0	15	18/03/2016
19464	Mammalia	Vespertilionidae	<i>Scotorepens orion</i>	south-eastern broad-nosed bat	C	None	0	7	14/02/2007
933	Mammalia	Vespertilionidae	<i>Scotorepens sp.</i>	None	C	None	0	3	05/10/2014
925	Mammalia	Vespertilionidae	<i>Vespadelus pumilus</i>	eastern forest bat	C	None	0	5	09/09/2008
928	Mammalia	Vespertilionidae	<i>Vespadelus trouhntoni</i>	eastern cave bat	C	None	0	1	31/12/1999
929	Mammalia	Vespertilionidae	<i>Vespadelus vulturinus</i>	little forest bat	C	None	0	1	13/02/2007
574	Reptilia	Agamidae	<i>Chlamydosaurus kingii</i>	frilled lizard	C	None	0	8	14/09/2017
567	Reptilia	Agamidae	<i>Diporiphora australis</i>	tommy roundhead	C	None	1	13	02/05/2018
561	Reptilia	Agamidae	<i>Diporiphora nobbi</i>	nobbi	C	None	0	5	14/02/2007
556	Reptilia	Agamidae	<i>Pogona barbata</i>	bearded dragon	C	None	1	13	07/11/2017
537	Reptilia	Boidae	<i>Antaresia maculosa</i>	spotted python	C	None	0	17	24/03/2015
538	Reptilia	Boidae	<i>Antaresia sp.</i>	None	C	None	0	1	16/09/2014
540	Reptilia	Boidae	<i>Aspidites melanocephalus</i>	black-headed python	C	None	1	5	15/02/2018
534	Reptilia	Boidae	<i>Morelia sp.</i>	None	C	None	0	1	25/09/2014
519	Reptilia	Boidae	<i>Morelia spilota</i>	carpet python	C	None	0	34	04/07/2018
62	Reptilia	Chelidae	<i>Chelodina expansa</i>	broad-shelled river turtle	C	None	0	1	31/12/1998
58	Reptilia	Chelidae	<i>Emydura macquarii krefftii</i>	Krefft's river turtle	C	None	1	10	20/01/2016
45	Reptilia	Chelidae	<i>Emydura sp.</i>	None	C	None	0	1	30/11/1998
54	Reptilia	Chelidae	<i>Wollumbinia latisternum</i>	saw-shelled turtle	C	None	0	1	20/01/2016
35	Reptilia	Cheloniidae	<i>Caretta caretta</i>	loggerhead turtle	E	E	0	1	30/11/1989
37	Reptilia	Cheloniidae	<i>Chelonia mydas</i>	green turtle	V	V	0	14	31/10/2012
522	Reptilia	Colubridae	<i>Boiga irregularis</i>	brown tree snake	C	None	0	12	09/11/2017
512	Reptilia	Colubridae	<i>Dendrelaphis punctulatus</i>	green tree snake	C	None	0	78	17/06/2017
508	Reptilia	Colubridae	<i>Tropidonophis mairii</i>	freshwater snake	C	None	1	12	01/06/2017
584	Reptilia	Crocodylidae	<i>Crocodylus porosus</i>	estuarine crocodile	V	None	0	1	31/12/1994

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
404	Reptilia	Diplodactylidae	<i>Amalosia rhombifer</i>	zig-zag gecko	C	None	0	37	10/07/2018
429	Reptilia	Diplodactylidae	<i>Diplodactylus vittatus</i>	wood gecko	C	None	0	11	23/12/2011
18294	Reptilia	Diplodactylidae	<i>Oedura monilis sensu lato</i>	ocellated velvet gecko	C	None	0	1	07/04/2018
378	Reptilia	Diplodactylidae	<i>Oedura tryoni</i>	southern spotted velvet gecko	C	None	0	11	07/04/2018
373	Reptilia	Elapidae	<i>Aipysurus mosaicus</i>	mosaic sea snake	C	None	1	1	02/08/1977
501	Reptilia	Elapidae	<i>Cacophis harriettae</i>	white-crowned snake	C	None	0	1	31/12/1999
455	Reptilia	Elapidae	<i>Cryptophis boschmai</i>	Carpentaria whip snake	C	None	0	1	31/12/1997
457	Reptilia	Elapidae	<i>Cryptophis nigrescens</i>	eastern small-eyed snake	C	None	0	2	20/05/2013
458	Reptilia	Elapidae	<i>Cryptophis nigrostriatus</i>	black-striped snake	C	None	0	1	31/12/1999
493	Reptilia	Elapidae	<i>Demansia psammophis</i>	yellow-faced whipsnake	C	None	0	8	18/03/2016
495	Reptilia	Elapidae	<i>Demansia torquata</i>	collared whipsnake	C	None	0	1	31/12/2003
496	Reptilia	Elapidae	<i>Demansia vestigiata</i>	lesser black whipsnake	C	None	1	10	21/09/2013
486	Reptilia	Elapidae	<i>Furina diadema</i>	red-naped snake	C	None	0	8	01/09/2011
477	Reptilia	Elapidae	<i>Hemiaspis signata</i>	black-bellied swamp snake	C	None	0	2	15/03/2012
479	Reptilia	Elapidae	<i>Hoplocephalus bitorquatus</i>	pale-headed snake	C	None	0	1	30/06/1992
361	Reptilia	Elapidae	<i>Hydrophis elegans</i>	elegant sea snake	C	None	1	3	30/11/1989
470	Reptilia	Elapidae	<i>Oxyuranus scutellatus</i>	coastal taipan	C	None	0	3	31/01/2003
462	Reptilia	Elapidae	<i>Pseudechis porphyriacus</i>	red-bellied black snake	C	None	0	1	30/11/1989
454	Reptilia	Elapidae	<i>Pseudonaja textilis</i>	eastern brown snake	C	None	0	15	24/11/2017
444	Reptilia	Elapidae	<i>Vermicella annulata</i>	bandy-bandy	C	None	0	11	14/12/2012
420	Reptilia	Gekkonidae	<i>Gehyra dubia</i>	dubious dtella	C	None	0	50	10/07/2018
413	Reptilia	Gekkonidae	<i>Heteronotia binoei</i>	Bynoe's gecko	C	None	6	50	30/03/2015
325	Reptilia	Pygopodidae	<i>Lialis burtonis</i>	Burton's legless lizard	C	None	0	15	24/11/2017
308	Reptilia	Scincidae	<i>Anomalopus verreauxii</i>	three-clawed worm-skink	C	None	0	7	31/12/1999
311	Reptilia	Scincidae	<i>Calyptotis lepidorostrum</i>	cone-eared calyptotis	C	None	0	2	07/02/2007
294	Reptilia	Scincidae	<i>Carlia munda</i>	shaded-litter rainbow-skink	C	None	0	20	18/03/2016

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
34646	Reptilia	Scincidae	<i>Carlia pectoralis</i>	open-litter rainbow skink	C	None	0	15	29/03/2015
297	Reptilia	Scincidae	<i>Carlia pectoralis sensu lato</i>	None	C	None	0	10	31/12/1999
302	Reptilia	Scincidae	<i>Carlia schmeltzii</i>	robust rainbow-skink	C	None	0	49	21/11/2017
277	Reptilia	Scincidae	<i>Carlia vivax</i>	tussock rainbow-skink	C	None	0	58	03/10/2014
214	Reptilia	Scincidae	<i>Concinnia brachysoma</i>	northern bar-sided skink	C	None	0	9	10/02/2007
188	Reptilia	Scincidae	<i>Concinnia martini</i>	dark bar-sided skink	C	None	0	1	31/12/1997
193	Reptilia	Scincidae	<i>Concinnia tenuis</i>	bar-sided skink	C	None	1	13	02/05/2018
31898	Reptilia	Scincidae	<i>Cryptoblepharus pulcher pulcher</i>	elegant snake-eyed skink	C	None	0	30	12/04/2017
274	Reptilia	Scincidae	<i>Cryptoblepharus sp.</i>	None	C	None	0	1	25/06/2009
260	Reptilia	Scincidae	<i>Cryptoblepharus virgatus sensu lato</i>	None	C	None	5	31	09/02/2007
239	Reptilia	Scincidae	<i>Ctenotus sp.</i>	None	C	None	0	1	18/03/2016
240	Reptilia	Scincidae	<i>Ctenotus spaldingi</i>	straight-browed ctenotus	C	None	0	2	16/10/2012
243	Reptilia	Scincidae	<i>Ctenotus taeniolatus</i>	copper-tailed skink	C	None	0	15	18/03/2016
216	Reptilia	Scincidae	<i>Cyclodomorphus gerrardii</i>	pink-tongued lizard	C	None	0	3	19/01/2015
190	Reptilia	Scincidae	<i>Eulamprus quoyii</i>	eastern water skink	C	None	0	3	31/12/1999
173	Reptilia	Scincidae	<i>Glaphyromorphus punctulatus</i>	fine-spotted mulch-skink	C	None	0	13	04/10/2014
174	Reptilia	Scincidae	<i>Glaphyromorphus sp.</i>	None	C	None	0	1	14/07/2010
179	Reptilia	Scincidae	<i>Lampropholis adonis</i>	diamond-shielded sunskink	C	None	0	3	31/12/1997
180	Reptilia	Scincidae	<i>Lampropholis amicula</i>	friendly sunskink	C	None	0	2	22/02/2012
184	Reptilia	Scincidae	<i>Lampropholis delicata</i>	dark-flecked garden sunskink	C	None	4	21	06/10/2014
170	Reptilia	Scincidae	<i>Lampropholis guichenoti</i>	pale-flecked garden sunskink	C	None	0	2	18/03/2016
167	Reptilia	Scincidae	<i>Lerista fragilis</i>	eastern mulch slider	C	None	0	10	03/10/2014
150	Reptilia	Scincidae	<i>Lygisaurus foliorum</i>	tree-base litter-skink	C	None	2	76	08/10/2014
127	Reptilia	Scincidae	<i>Menetia greyii</i>	common dwarf skink	C	None	0	3	31/12/1999
136	Reptilia	Scincidae	<i>Morethia sp.</i>	None	C	None	0	1	01/12/2008
138	Reptilia	Scincidae	<i>Morethia taeniopleura</i>	fire-tailed skink	C	None	0	8	18/03/2016

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
113	Reptilia	Scincidae	<i>Ophioscincus cooloolensis</i>	Cooloola snake-skink	C	None	0	3	31/12/1998
104	Reptilia	Scincidae	<i>Tiliqua scincoides</i>	eastern blue-tongued lizard	C	None	0	1	27/04/2013
82	Reptilia	Typhlopidae	<i>Anilius unguirostris</i>	claw-snouted blind snake	C	None	0	2	22/02/2012
83	Reptilia	Typhlopidae	<i>Anilius wiedii</i>	brown-snouted blind snake	C	None	0	6	09/02/2007
70	Reptilia	Varanidae	<i>Varanus semiremex</i>	rusty monitor	C	None	0	2	13/02/2013
60	Reptilia	Varanidae	<i>Varanus tristis</i>	black-tailed monitor	C	None	0	13	10/07/2018
61	Reptilia	Varanidae	<i>Varanus varius</i>	lace monitor	C	None	0	6	07/03/2018

Table 3. Plants recorded within the area of interest and its one kilometre buffer

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
12326	Equisetopsida	Acanthaceae	<i>Avicennia marina</i>	None	C	None	0	2	12/11/2008
6798	Equisetopsida	Acanthaceae	<i>Avicennia marina</i> subsp. <i>australasica</i>	None	C	None	0	1	01/02/1993
17767	Equisetopsida	Acanthaceae	<i>Brunoniella australis</i>	blue trumpet	C	None	0	17	15/02/2018
15850	Equisetopsida	Acanthaceae	<i>Graptophyllum excelsum</i>	None	NT	None	0	9	22/07/2010
15853	Equisetopsida	Acanthaceae	<i>Graptophyllum spinigerum</i>	None	C	None	3	6	19/10/2012
5869	Equisetopsida	Acanthaceae	<i>Harnieria hygrophiloides</i>	white karambal	C	None	0	2	19/04/1999
16927	Equisetopsida	Acanthaceae	<i>Hygrophila angustifolia</i>	None	C	None	0	1	22/07/2010
16375	Equisetopsida	Acanthaceae	<i>Pseuderanthemum variabile</i>	pastel flower	C	None	0	10	22/07/2010
16262	Equisetopsida	Acanthaceae	<i>Rostellularia adscendens</i>	None	C	None	0	7	06/12/2011
16258	Equisetopsida	Acanthaceae	<i>Rostellularia adscendens</i> var. <i>hispida</i>	None	C	None	1	1	09/07/1989
33640	Equisetopsida	Acanthaceae	<i>Ruellia simplex</i>	None	None	None	2	2	14/10/2004
19722	Equisetopsida	Agavaceae	<i>Agave americana</i>	None	None	None	0	1	31/01/2003
41761	Equisetopsida	Agavaceae	<i>Agave angustifolia</i>	None	None	None	1	1	15/12/2004
11724	Equisetopsida	Agavaceae	<i>Furcraea foetida</i>	None	None	None	1	1	05/04/2000
16192	Equisetopsida	Aizoaceae	<i>Sesuvium portulacastrum</i>	sea purslane	C	None	0	1	01/02/1993
16014	Equisetopsida	Aizoaceae	<i>Trianthema portulacastrum</i>	black pigweed	None	None	1	1	20/02/1980
18101	Equisetopsida	Amaranthaceae	<i>Achyranthes aspera</i>	None	C	None	0	8	01/12/2010
18026	Equisetopsida	Amaranthaceae	<i>Alternanthera denticulata</i>	lesser joyweed	C	None	0	2	22/07/2010
18029	Equisetopsida	Amaranthaceae	<i>Alternanthera nana</i>	hairy joyweed	C	None	0	5	22/07/2010
17978	Equisetopsida	Amaranthaceae	<i>Alternanthera nodiflora</i>	joyweed	C	None	0	1	31/01/2003
11849	Equisetopsida	Amaranthaceae	<i>Alternanthera pungens</i>	khaki weed	None	None	1	2	11/10/2004

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
17982	Equisetopsida	Amaranthaceae	<i>Amaranthus</i>	None	None	None	0	1	31/01/2003
12109	Equisetopsida	Amaranthaceae	<i>Amaranthus hybridus</i>	redshank	None	None	0	1	22/07/2010
17981	Equisetopsida	Amaranthaceae	<i>Amaranthus viridis</i>	green amaranth	None	None	1	2	11/10/2004
17499	Equisetopsida	Amaranthaceae	<i>Deeringia amaranthoides</i>	redberry	C	None	1	2	19/04/1999
17500	Equisetopsida	Amaranthaceae	<i>Deeringia arborescens</i>	climbing deeringia	C	None	1	1	24/04/2003
17051	Equisetopsida	Amaranthaceae	<i>Gomphrena celosioides</i>	gomphrena weed	None	None	3	7	22/07/2010
15516	Equisetopsida	Amaryllidaceae	<i>Crinum</i>	None	None	None	0	2	01/12/2010
15513	Equisetopsida	Amaryllidaceae	<i>Crinum pedunculatum</i>	river lily	C	None	0	1	31/01/2003
11702	Equisetopsida	Amaryllidaceae	<i>Proiphys cunninghamii</i>	Moreton Bay lily	C	None	2	2	27/03/1993
17173	Equisetopsida	Anacardiaceae	<i>Euroschinus falcatus</i>	None	C	None	0	15	31/01/2003
17171	Equisetopsida	Anacardiaceae	<i>Euroschinus falcatus</i> var. <i>angustifolius</i>	None	C	None	0	1	22/07/2010
17172	Equisetopsida	Anacardiaceae	<i>Euroschinus falcatus</i> var. <i>falcatus</i>	None	C	None	2	5	07/10/2019
16720	Equisetopsida	Anacardiaceae	<i>Mangifera indica</i>	mango	None	None	0	1	31/01/2003
16424	Equisetopsida	Anacardiaceae	<i>Pleogynium timorense</i>	Burdekin plum	C	None	0	22	22/07/2010
11769	Equisetopsida	Anacardiaceae	<i>Schinus terebinthifolius</i>	None	None	None	5	5	14/10/2004
41406	Equisetopsida	Annonaceae	<i>Huberantha nitidissima</i>	None	C	None	0	8	22/07/2010
8144	Equisetopsida	Annonaceae	<i>Melodorum leichhardtii</i>	None	C	None	0	18	22/07/2010
15545	Equisetopsida	Apiaceae	<i>Centella asiatica</i>	None	C	None	0	2	22/07/2010
15495	Equisetopsida	Apiaceae	<i>Cyclosporum leptophyllum</i>	None	None	None	2	2	14/10/2004
9484	Equisetopsida	Apocynaceae	<i>Alstonia constricta</i>	bitterbark	C	None	1	20	22/07/2010
5631	Equisetopsida	Apocynaceae	<i>Alyxia magnifolia</i>	None	C	None	2	6	19/04/1999
19732	Equisetopsida	Apocynaceae	<i>Alyxia ruscifolia</i>	None	C	None	2	32	22/07/2010
17935	Equisetopsida	Apocynaceae	<i>Asclepias curassavica</i>	red-head cottonbush	None	None	2	9	15/02/2018
9698	Equisetopsida	Apocynaceae	<i>Carissa ovata</i>	currantbush	C	None	2	28	15/02/2018
17693	Equisetopsida	Apocynaceae	<i>Cascabela thevetia</i>	yellow oleander	None	None	4	5	22/07/2010
17710	Equisetopsida	Apocynaceae	<i>Catharanthus roseus</i>	pink periwinkle	None	None	2	3	11/10/2004
15479	Equisetopsida	Apocynaceae	<i>Cryptostegia grandiflora</i>	rubber vine	None	None	2	19	15/02/2018
36295	Equisetopsida	Apocynaceae	<i>Cynanchum viminalis</i>	None	C	None	0	10	01/12/2008
35895	Equisetopsida	Apocynaceae	<i>Cynanchum viminalis</i> subsp. <i>australe</i>	None	C	None	0	3	19/04/1999
35894	Equisetopsida	Apocynaceae	<i>Cynanchum viminalis</i> subsp. <i>brunonianum</i>	None	C	None	2	5	22/07/2010
17050	Equisetopsida	Apocynaceae	<i>Gomphocarpus physocarpus</i>	balloon cottonbush	None	None	4	19	07/05/2019
8452	Equisetopsida	Apocynaceae	<i>Gymnanthera oblonga</i>	None	C	None	1	2	19/04/1999

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4710	Equisetopsida	Apocynaceae	<i>Gymnema pleiadenium</i>	None	C	None	0	1	19/04/1999
11202	Equisetopsida	Apocynaceae	<i>Hoya australis</i>	None	C	None	0	17	22/07/2010
41666	Equisetopsida	Apocynaceae	<i>Leichhardtia micradenia</i>	None	C	None	0	1	17/04/1997
41654	Equisetopsida	Apocynaceae	<i>Leichhardtia microlepis</i>	None	C	None	2	15	10/05/2019
41642	Equisetopsida	Apocynaceae	<i>Leichhardtia rostrata</i>	None	C	None	1	1	17/04/1997
41662	Equisetopsida	Apocynaceae	<i>Leichhardtia viridiflora</i>	None	C	None	0	5	19/04/1999
41644	Equisetopsida	Apocynaceae	<i>Leichhardtia viridiflora</i> subsp. <i>viridiflora</i>	None	C	None	1	1	09/11/2011
14385	Equisetopsida	Apocynaceae	<i>Marsdenia</i>	None	None	None	0	1	01/12/2010
11155	Equisetopsida	Apocynaceae	<i>Nerium oleander</i>	oleander	None	None	0	1	31/01/2003
16528	Equisetopsida	Apocynaceae	<i>Parsonsia</i>	None	None	None	0	2	01/12/2008
16521	Equisetopsida	Apocynaceae	<i>Parsonsia lanceolata</i>	northern silkpod	C	None	2	15	09/04/2013
5948	Equisetopsida	Apocynaceae	<i>Parsonsia larcomensis</i>	None	V	V	7	7	12/08/1999
11416	Equisetopsida	Apocynaceae	<i>Parsonsia leichhardtii</i>	black silkpod	C	None	0	3	19/04/1999
5945	Equisetopsida	Apocynaceae	<i>Parsonsia paulforsteri</i>	None	C	None	3	17	22/07/2010
16525	Equisetopsida	Apocynaceae	<i>Parsonsia plaesiophylla</i>	None	C	None	0	2	22/07/2010
14344	Equisetopsida	Apocynaceae	<i>Parsonsia rotata</i>	veinless silkpod	C	None	0	4	19/04/1999
16526	Equisetopsida	Apocynaceae	<i>Parsonsia straminea</i>	monkey rope	C	None	0	2	31/01/2003
16527	Equisetopsida	Apocynaceae	<i>Parsonsia velutina</i>	hairy silkpod	C	None	0	7	22/07/2010
14343	Equisetopsida	Apocynaceae	<i>Parsonsia ventricosa</i>	None	C	None	0	1	10/09/1994
11185	Equisetopsida	Apocynaceae	<i>Rauvolfia tetraphylla</i>	None	None	None	1	1	16/12/2004
16184	Equisetopsida	Apocynaceae	<i>Secamone elliptica</i>	None	C	None	1	20	14/11/2012
16059	Equisetopsida	Apocynaceae	<i>Tabernaemontana</i> <i>pandacaqui</i>	banana bush	C	None	0	1	27/03/1993
35897	Equisetopsida	Apocynaceae	<i>Vincetoxicum carnosum</i>	None	C	None	1	1	16/04/1997
41249	Equisetopsida	Apocynaceae	<i>Vincetoxicum grandiflorum</i>	None	C	None	0	3	19/04/1999
35914	Equisetopsida	Apocynaceae	<i>Vincetoxicum ovatum</i>	None	C	None	1	10	09/03/2003
12389	Equisetopsida	Araceae	<i>Gymnostachys anceps</i>	settler's flax	C	None	1	5	22/07/2010
6367	Equisetopsida	Araceae	<i>Syngonium podophyllum</i>	None	None	None	1	1	14/10/2004
11142	Equisetopsida	Araceae	<i>Typhonium brownii</i>	black arum lily	C	None	1	1	31/05/1992
41442	Equisetopsida	Araliaceae	<i>Heptapleurum</i> <i>actinophyllum</i>	None	C	None	0	2	31/01/2003
8462	Equisetopsida	Araliaceae	<i>Polyscias elegans</i>	celery wood	C	None	0	15	22/07/2010
17960	Equisetopsida	Araucariaceae	<i>Araucaria cunninghamii</i>	hoop pine	C	None	0	1	19/06/1983
29766	Equisetopsida	Arecaceae	<i>Livistona decora</i>	None	C	None	0	2	22/07/2010
22101	Equisetopsida	Arecaceae	<i>Syagrus romanzoffiana</i>	Queen palm	None	None	0	2	22/07/2010
17972	Equisetopsida	Aristolochiaceae	<i>Aristolochia elegans</i>	calico-flower	None	None	1	3	05/02/2006
19747	Equisetopsida	Asparagaceae	<i>Asparagus aethiopicus</i>	ground asparagus	None	None	1	1	11/10/2004
7563	Equisetopsida	Asparagaceae	<i>Asparagus africanus</i>	ornamental asparagus	None	None	1	3	22/05/1997
7566	Equisetopsida	Asparagaceae	<i>Asparagus plumosus</i>	feathered asparagus fern	None	None	0	2	22/07/2010

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8885	Equisetopsida	Asparagaceae	<i>Asparagus racemosus</i>	native asparagus	C	None	1	1	05/07/2015
14041	Equisetopsida	Aspleniaceae	<i>Asplenium</i>	None	None	None	0	2	16/04/1999
17937	Equisetopsida	Aspleniaceae	<i>Asplenium australasicum</i>	None	C	None	2	3	24/07/2003
15715	Equisetopsida	Asteraceae	<i>Acanthospermum hispidum</i>	star burr	None	None	0	1	22/07/2010
15835	Equisetopsida	Asteraceae	<i>Acmella grandiflora</i> var. <i>brachyglossa</i>	None	C	None	2	2	31/05/1992
11158	Equisetopsida	Asteraceae	<i>Ageratum conyzoides</i>	billygoat weed	None	None	1	10	22/07/2010
22801	Equisetopsida	Asteraceae	<i>Ageratum conyzoides</i> subsp. <i>conyzoides</i>	None	None	None	3	4	15/02/2018
14051	Equisetopsida	Asteraceae	<i>Ageratum houstonianum</i>	blue billygoat weed	None	None	1	9	15/02/2018
15612	Equisetopsida	Asteraceae	<i>Baccharis halimifolia</i>	groundsel bush	None	None	1	2	14/10/2004
22368	Equisetopsida	Asteraceae	<i>Bidens alba</i> var. <i>radiata</i>	None	None	None	1	1	16/12/2004
14045	Equisetopsida	Asteraceae	<i>Bidens bipinnata</i>	bipinnate beggar's ticks	None	None	0	1	31/01/2003
7691	Equisetopsida	Asteraceae	<i>Bidens pilosa</i>	None	None	None	1	18	15/02/2018
36251	Equisetopsida	Asteraceae	<i>Blumea axillaris</i>	None	C	None	1	1	21/10/2010
12285	Equisetopsida	Asteraceae	<i>Blumea saxatilis</i>	None	C	None	0	1	12/11/2008
11093	Equisetopsida	Asteraceae	<i>Brachyscome</i>	None	None	None	0	1	19/04/1999
10098	Equisetopsida	Asteraceae	<i>Brachyscome basaltica</i>	None	C	None	1	1	16/04/1997
15565	Equisetopsida	Asteraceae	<i>Calotis cuneifolia</i>	burr daisy	C	None	0	1	31/01/2003
15567	Equisetopsida	Asteraceae	<i>Calotis hispidula</i>	bogan flea	C	None	0	1	31/01/2003
15570	Equisetopsida	Asteraceae	<i>Calyptocarpus vialis</i>	creeping cinderella weed	None	None	3	11	22/07/2010
15574	Equisetopsida	Asteraceae	<i>Carduus thoermeri</i>	nodding thistle	None	None	0	1	31/01/2003
15537	Equisetopsida	Asteraceae	<i>Cassinia quinquefaria</i>	None	C	None	0	1	31/01/2003
18916	Equisetopsida	Asteraceae	<i>Centipeda minima</i>	None	C	None	0	2	22/07/2010
33042	Equisetopsida	Asteraceae	<i>Centratherum riparium</i>	None	C	None	1	1	25/05/1988
8398	Equisetopsida	Asteraceae	<i>Chrysocephalum apiculatum</i>	yellow buttons	C	None	0	1	31/01/2003
14001	Equisetopsida	Asteraceae	<i>Cirsium vulgare</i>	spear thistle	None	None	1	3	22/07/2010
29560	Equisetopsida	Asteraceae	<i>Coronidium lanuginosum</i>	None	C	None	0	2	22/07/2010
14676	Equisetopsida	Asteraceae	<i>Crassocephalum crepidioides</i>	thickhead	None	None	1	1	11/10/2004
22237	Equisetopsida	Asteraceae	<i>Cyanthillium cinereum</i>	None	C	None	4	24	15/02/2018
15438	Equisetopsida	Asteraceae	<i>Eclipta prostrata</i>	white eclipta	None	None	3	3	14/10/2004
15401	Equisetopsida	Asteraceae	<i>Emilia sonchifolia</i>	None	None	None	0	24	15/02/2018
15399	Equisetopsida	Asteraceae	<i>Emilia sonchifolia</i> var. <i>javanica</i>	None	None	None	2	2	30/06/1988
15400	Equisetopsida	Asteraceae	<i>Emilia sonchifolia</i> var. <i>sonchifolia</i>	None	None	None	1	1	16/12/2004
35896	Equisetopsida	Asteraceae	<i>Erigeron bonariensis</i>	None	None	None	1	2	11/10/2004
35905	Equisetopsida	Asteraceae	<i>Erigeron sumatrensis</i>	None	None	None	2	2	11/10/2004
8404	Equisetopsida	Asteraceae	<i>Gamochaeta pensylvanica</i>	None	None	None	1	3	22/07/2010

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10693	Equisetopsida	Asteraceae	<i>Gazania rigens</i>	None	None	None	1	1	11/10/2004
9092	Equisetopsida	Asteraceae	<i>Glossocardia bidens</i>	native cobble's pegs	C	None	1	1	27/11/1987
15307	Equisetopsida	Asteraceae	<i>Gynura drymophila</i> var. <i>drymophila</i>	None	C	None	1	1	17/04/1997
15317	Equisetopsida	Asteraceae	<i>Helichrysum</i>	None	None	None	0	2	01/12/2010
31935	Equisetopsida	Asteraceae	<i>Hypochaeris albiflora</i>	None	None	None	1	1	16/12/2010
29504	Equisetopsida	Asteraceae	<i>Lactuca serriola</i> forma <i>serriola</i>	None	None	None	1	1	11/10/2004
41062	Equisetopsida	Asteraceae	<i>Lagenophora sublyrata</i>	None	C	None	2	2	17/04/1997
14333	Equisetopsida	Asteraceae	<i>Olearia</i>	None	None	None	0	1	09/01/1988
14331	Equisetopsida	Asteraceae	<i>Olearia canescens</i>	None	C	None	0	2	19/04/1999
35071	Equisetopsida	Asteraceae	<i>Olearia canescens</i> subsp. <i>discolor</i>	None	C	None	1	1	15/04/1997
15162	Equisetopsida	Asteraceae	<i>Olearia subspicata</i>	None	C	None	0	1	16/04/1999
8367	Equisetopsida	Asteraceae	<i>Ozothamnus cassinioides</i>	None	C	None	2	3	19/04/1999
6538	Equisetopsida	Asteraceae	<i>Peripleura bicolor</i>	None	C	None	1	1	07/11/2000
6539	Equisetopsida	Asteraceae	<i>Peripleura diffusa</i>	None	C	None	0	1	31/01/2003
6540	Equisetopsida	Asteraceae	<i>Peripleura hispidula</i>	None	C	None	0	12	22/07/2010
6541	Equisetopsida	Asteraceae	<i>Peripleura hispidula</i> var. <i>hispidula</i>	None	C	None	1	1	25/06/1988
6542	Equisetopsida	Asteraceae	<i>Peripleura hispidula</i> var. <i>setosa</i>	None	C	None	0	3	22/07/2010
7090	Equisetopsida	Asteraceae	<i>Picris angustifolia</i> subsp. <i>carolorum-henricorum</i>	None	C	None	0	4	22/07/2010
8407	Equisetopsida	Asteraceae	<i>Praxelis clematidea</i>	None	None	None	1	1	06/05/2008
8363	Equisetopsida	Asteraceae	<i>Pseudognaphalium</i> <i>luteoalbum</i>	Jersey cudweed	C	None	1	1	14/10/2004
10478	Equisetopsida	Asteraceae	<i>Pterocaulon</i>	None	None	None	0	2	06/12/2011
15129	Equisetopsida	Asteraceae	<i>Pterocaulon redolens</i>	None	C	None	1	21	15/02/2018
9320	Equisetopsida	Asteraceae	<i>Pterocaulon serrulatum</i>	None	C	None	0	1	22/07/2010
20003	Equisetopsida	Asteraceae	<i>Schkuhria pinnata</i>	None	None	None	2	2	15/12/2004
30174	Equisetopsida	Asteraceae	<i>Senecio brigalowensis</i>	None	C	None	1	1	19/08/2007
12208	Equisetopsida	Asteraceae	<i>Sigesbeckia orientalis</i>	Indian weed	C	None	1	7	22/07/2010
15039	Equisetopsida	Asteraceae	<i>Sonchus oleraceus</i>	common sowthistle	None	None	2	8	22/07/2010
34624	Equisetopsida	Asteraceae	<i>Sphaeromorphaea</i> <i>australis</i>	None	C	None	1	7	22/07/2010
26362	Equisetopsida	Asteraceae	<i>Sphagnetocola trilobata</i>	None	None	None	5	5	15/10/2004
35909	Equisetopsida	Asteraceae	<i>Symphotrichum</i> <i>subulatum</i>	None	None	None	1	2	11/10/2004
5622	Equisetopsida	Asteraceae	<i>Synedrellopsis grisebachii</i>	None	None	None	2	2	16/10/2005
10448	Equisetopsida	Asteraceae	<i>Taraxacum officinale</i>	dandelion	None	None	1	1	11/10/2004
41214	Equisetopsida	Asteraceae	<i>Thymophylla tenuiloba</i>	None	None	None	1	1	25/09/2007
10450	Equisetopsida	Asteraceae	<i>Tithonia diversifolia</i>	Japanese sunflower	None	None	1	1	16/12/2004
14987	Equisetopsida	Asteraceae	<i>Tridax procumbens</i>	tridax daisy	None	None	5	8	12/10/2004

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36235	Equisetopsida	Asteraceae	<i>Verbesina encelioides</i> var. <i>encelioides</i>	None	None	None	1	1	14/04/1989
9527	Equisetopsida	Asteraceae	<i>Vittadinia dissecta</i>	None	C	None	0	1	19/04/1999
14959	Equisetopsida	Asteraceae	<i>Vittadinia sulcata</i>	native daisy	C	None	0	2	31/01/2003
22235	Equisetopsida	Asteraceae	<i>Xanthium occidentale</i>	None	None	None	2	2	16/12/2004
27470	Equisetopsida	Asteraceae	<i>Xerochrysum bracteatum</i>	golden everlasting daisy	C	None	1	1	17/04/1997
21766	Equisetopsida	Asteraceae	<i>Zinnia</i>	None	C	None	0	1	02/08/1996
10411	Equisetopsida	Asteraceae	<i>Zinnia peruviana</i>	wild zinnia	None	None	0	1	22/07/2010
25558	Equisetopsida	Aytoniaceae	<i>Asterella drummondii</i>	None	C	None	2	2	24/06/2011
9090	Equisetopsida	Balsaminaceae	<i>Impatiens walleriana</i>	balsam	None	None	0	1	31/01/2003
34188	Equisetopsida	Bignoniaceae	<i>Dolichandra unguis-cati</i>	cat's claw creeper	None	None	1	2	22/07/2010
16569	Equisetopsida	Bignoniaceae	<i>Pandorea jasminoides</i>	None	C	None	0	1	22/07/2010
16570	Equisetopsida	Bignoniaceae	<i>Pandorea pandorana</i>	wonga vine	C	None	2	22	22/07/2010
17871	Equisetopsida	Blechnaceae	<i>Blechnum cartilagineum</i>	gristle fern	C	None	1	1	24/07/2003
17819	Equisetopsida	Blechnaceae	<i>Blechnum orientale</i>	None	C	None	2	2	04/07/2019
11582	Equisetopsida	Boraginaceae	<i>Ehretia</i>	None	None	None	0	1	09/01/1988
8129	Equisetopsida	Boraginaceae	<i>Ehretia grahamii</i>	None	C	None	5	14	22/07/2010
15393	Equisetopsida	Boraginaceae	<i>Ehretia membranifolia</i>	weeping koda	C	None	1	6	19/04/1999
11193	Equisetopsida	Boraginaceae	<i>Heliotropium amplexicaule</i>	blue heliotrope	None	None	3	3	15/12/2004
15968	Equisetopsida	Boraginaceae	<i>Trichodesma zeylanicum</i>	None	C	None	0	2	01/12/2008
13719	Equisetopsida	Boraginaceae	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	None	C	None	1	2	15/02/2018
9571	Equisetopsida	Brassicaceae	<i>Cardamine flexuosa</i>	wood bittercress	None	None	1	1	11/10/2004
12221	Equisetopsida	Brassicaceae	<i>Lepidium bonariense</i>	Argentine peppercress	None	None	5	5	16/10/2005
27691	Equisetopsida	Brassicaceae	<i>Lepidium didymum</i>	None	None	None	1	1	11/10/2004
14438	Equisetopsida	Brassicaceae	<i>Lepidium virginicum</i>	Virginian peppercress	None	None	1	1	14/10/2004
11630	Equisetopsida	Brassicaceae	<i>Rapistrum rugosum</i>	None	None	None	1	1	01/10/2007
15037	Equisetopsida	Brassicaceae	<i>Sisymbrium thellungii</i>	African turnip-weed	None	None	1	1	15/12/2004
16667	Equisetopsida	Byttneriaceae	<i>Melochia pyramidata</i>	None	None	None	1	1	20/02/1980
35845	Equisetopsida	Byttneriaceae	<i>Seringia lanceolata</i>	None	C	None	0	1	16/04/1999
13842	Equisetopsida	Cactaceae	<i>Opuntia</i>	None	None	None	0	2	12/11/2008
19352	Equisetopsida	Cactaceae	<i>Opuntia stricta</i>	None	None	None	1	19	15/02/2018
9535	Equisetopsida	Cactaceae	<i>Opuntia tomentosa</i>	velvety tree pear	None	None	0	4	15/02/2018
13867	Equisetopsida	Campanulaceae	<i>Lobelia</i>	None	None	None	0	1	19/04/1999
33856	Equisetopsida	Campanulaceae	<i>Lobelia concolor</i>	None	C	None	0	1	22/07/2010
16766	Equisetopsida	Campanulaceae	<i>Lobelia purpurascens</i>	white root	C	None	0	1	31/01/2003

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13864	Equisetopsida	Campanulaceae	<i>Lobelia stenophylla</i>	None	C	None	1	1	14/04/1989
15918	Equisetopsida	Campanulaceae	<i>Wahlenbergia gracilis</i>	sprawling bluebell	C	None	1	1	14/04/1989
13987	Equisetopsida	Capparaceae	<i>Capparis</i>	None	None	None	0	4	16/09/1994
17725	Equisetopsida	Capparaceae	<i>Capparis arborea</i>	brush caper berry	C	None	2	23	22/07/2010
13984	Equisetopsida	Capparaceae	<i>Capparis canescens</i>	None	C	None	1	9	15/02/2018
17729	Equisetopsida	Capparaceae	<i>Capparis mitchellii</i>	None	C	None	0	1	22/07/2010
17730	Equisetopsida	Capparaceae	<i>Capparis ornans</i>	None	C	None	1	15	22/07/2010
17732	Equisetopsida	Capparaceae	<i>Capparis sarmentosa</i>	scrambling caper	C	None	0	3	19/04/1999
13988	Equisetopsida	Caricaceae	<i>Carica papaya</i>	pawpaw	None	None	0	2	22/07/2010
17352	Equisetopsida	Caryophyllaceae	<i>Drymaria cordata</i> subsp. <i>cordata</i>	None	None	None	1	1	01/05/2011
11374	Equisetopsida	Caryophyllaceae	<i>Polycarpha corymbosa</i>	None	C	None	0	1	22/07/2010
18012	Equisetopsida	Casuarinaceae	<i>Allocasuarina littoralis</i>	None	C	None	0	3	22/07/2010
18014	Equisetopsida	Casuarinaceae	<i>Allocasuarina torulosa</i>	None	C	None	0	9	15/02/2018
9087	Equisetopsida	Casuarinaceae	<i>Casuarina cunninghamiana</i>	None	C	None	0	3	22/07/2010
13995	Equisetopsida	Casuarinaceae	<i>Casuarina cunninghamiana</i> subsp. <i>cunninghamiana</i>	None	C	None	0	1	15/02/2018
13994	Equisetopsida	Casuarinaceae	<i>Casuarina equisetifolia</i>	None	C	None	0	2	19/06/1983
11097	Equisetopsida	Celastraceae	<i>Celastrus subspicata</i>	large-leaved staffvine	C	None	0	1	27/03/1993
17458	Equisetopsida	Celastraceae	<i>Denhamia</i>	None	None	None	0	1	09/01/1988
34775	Equisetopsida	Celastraceae	<i>Denhamia cunninghamii</i>	None	C	None	0	8	22/07/2010
34776	Equisetopsida	Celastraceae	<i>Denhamia disperma</i>	None	C	None	0	12	15/02/2018
17455	Equisetopsida	Celastraceae	<i>Denhamia oleaster</i>	None	C	None	1	3	19/04/1999
17456	Equisetopsida	Celastraceae	<i>Denhamia pittosporoides</i> subsp. <i>pittosporoides</i>	None	C	None	1	1	21/03/1988
22222	Equisetopsida	Celastraceae	<i>Elaeodendron australe</i> var. <i>australe</i>	None	C	None	1	3	22/07/2010
22226	Equisetopsida	Celastraceae	<i>Elaeodendron melanocarpum</i>	None	C	None	3	23	21/07/2021
16964	Equisetopsida	Celastraceae	<i>Hippocratea barbata</i>	knotvine	C	None	0	1	19/04/1999
16426	Equisetopsida	Celastraceae	<i>Pleurostylia opposita</i>	None	C	None	1	2	19/04/1999
15034	Equisetopsida	Celastraceae	<i>Siphonodon australis</i>	ivorywood	C	None	1	5	10/08/2002
9644	Equisetopsida	Chenopodiaceae	<i>Chenopodium</i>	None	None	None	0	2	12/11/2008
17684	Equisetopsida	Chenopodiaceae	<i>Chenopodium album</i>	fat-hen	None	None	0	1	01/12/2010
14752	Equisetopsida	Chenopodiaceae	<i>Chenopodium murale</i>	green fat-hen	None	None	1	1	30/09/1992

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14621	Equisetopsida	Chenopodiaceae	<i>Dysphania littoralis</i>	red crumbweed	C	None	1	1	14/10/2004
17296	Equisetopsida	Chenopodiaceae	<i>Enchylaena tomentosa</i>	None	C	None	0	1	27/10/1998
16115	Equisetopsida	Chenopodiaceae	<i>Suaeda australis</i>	None	C	None	0	2	31/01/2003
31663	Equisetopsida	Chenopodiaceae	<i>Tecticornia</i>	None	None	None	0	1	12/11/2008
16019	Equisetopsida	Chenopodiaceae	<i>Tecticornia australasica</i>	None	C	None	1	1	16/11/2020
31667	Equisetopsida	Chenopodiaceae	<i>Tecticornia halocnemoides</i>	None	C	None	0	1	01/02/1993
31677	Equisetopsida	Chenopodiaceae	<i>Tecticornia indica</i>	None	C	None	0	2	31/01/2003
31671	Equisetopsida	Chenopodiaceae	<i>Tecticornia pergranulata</i> <i>subsp. queenslandica</i>	None	C	None	1	1	20/06/2004
17490	Equisetopsida	Combretaceae	<i>Dansiea elliptica</i>	None	NT	None	4	6	14/01/2015
13872	Equisetopsida	Combretaceae	<i>Lumnitzera racemosa</i>	None	C	None	1	2	09/02/2006
14425	Equisetopsida	Combretaceae	<i>Macropteranthes fitzalanii</i>	None	C	None	0	4	22/07/2010
13589	Equisetopsida	Combretaceae	<i>Macropteranthes leichhardtii</i>	bonewood	C	None	0	3	16/04/1999
7667	Equisetopsida	Combretaceae	<i>Macropteranthes leiocaulis</i>	None	NT	None	6	12	23/03/2014
13766	Equisetopsida	Combretaceae	<i>Terminalia</i>	None	None	None	0	1	01/12/2008
16028	Equisetopsida	Combretaceae	<i>Terminalia porphyrocarpa</i>	None	C	None	3	27	15/02/2018
10134	Equisetopsida	Commelinaceae	<i>Aneilema</i>	None	None	None	0	1	19/04/1999
17996	Equisetopsida	Commelinaceae	<i>Aneilema acuminatum</i>	None	C	None	1	5	19/04/1999
17593	Equisetopsida	Commelinaceae	<i>Commelina</i>	None	None	None	0	3	19/04/1999
10033	Equisetopsida	Commelinaceae	<i>Commelina diffusa</i>	wandering jew	C	None	0	6	15/02/2018
11105	Equisetopsida	Commelinaceae	<i>Commelina ensifolia</i>	scurvy grass	C	None	0	1	31/01/2003
16599	Equisetopsida	Commelinaceae	<i>Murdannia graminea</i>	murdannia	C	None	1	5	06/12/2011
9898	Equisetopsida	Convolvulaceae	<i>Cuscuta australis</i>	Australian dodder	C	None	0	1	19/06/1983
36245	Equisetopsida	Convolvulaceae	<i>Distimake dissectus</i>	None	None	None	4	4	09/04/2013
36246	Equisetopsida	Convolvulaceae	<i>Distimake quinquefolius</i>	None	None	None	1	1	11/10/2004
17176	Equisetopsida	Convolvulaceae	<i>Evolvulus alsinoides</i>	None	C	None	0	8	22/07/2010
17175	Equisetopsida	Convolvulaceae	<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	None	C	None	1	4	15/02/2018
14467	Equisetopsida	Convolvulaceae	<i>Ipomoea cairica</i>	None	None	None	1	1	20/02/1980
16862	Equisetopsida	Convolvulaceae	<i>Ipomoea plebeia</i>	bellvine	C	None	0	3	22/07/2010

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16864	Equisetopsida	Convolvulaceae	<i>Ipomoea quamoclit</i>	star of Bethlehem	None	None	1	1	20/02/2008
34730	Equisetopsida	Convolvulaceae	<i>Ipomoea violacea</i>	None	C	None	0	6	22/07/2010
16882	Equisetopsida	Convolvulaceae	<i>Jacquemontia paniculata</i>	None	C	None	3	4	22/07/2010
16881	Equisetopsida	Convolvulaceae	<i>Jacquemontia paniculata</i> var. <i>tomentosa</i>	None	C	None	0	2	17/04/1997
16395	Equisetopsida	Convolvulaceae	<i>Polymeria calycina</i>	pink bindweed	C	None	1	3	06/12/2011
16398	Equisetopsida	Convolvulaceae	<i>Polymeria pusilla</i>	None	C	None	0	2	22/07/2010
40968	Equisetopsida	Cornaceae	<i>Alangium polyosmoides</i> subsp. <i>tomentosum</i>	None	C	None	0	2	19/04/1999
21934	Equisetopsida	Crassulaceae	<i>Bryophyllum delagoense</i>	None	None	None	3	4	16/12/2004
31058	Equisetopsida	Crassulaceae	<i>Bryophyllum x houghtonii</i>	None	None	None	0	1	22/07/2010
9267	Equisetopsida	Crassulaceae	<i>Crassula sieberiana</i>	None	C	None	1	1	02/03/1997
17546	Equisetopsida	Cucurbitaceae	<i>Cucumis melo</i>	None	C	None	0	1	22/07/2010
9896	Equisetopsida	Cucurbitaceae	<i>Cucurbita pepo</i>	None	None	None	1	1	16/12/2004
18824	Equisetopsida	Cucurbitaceae	<i>Diplocyclos palmatus</i>	None	C	None	1	7	22/07/2010
41609	Equisetopsida	Cyatheaceae	<i>Alsophila australis</i>	None	C	None	2	2	04/09/1998
8445	Equisetopsida	Cycadaceae	<i>Cycas megacarpa</i>	None	E	E	4	6	30/11/2021
9529	Equisetopsida	Cyperaceae	<i>Abildgaardia ovata</i>	None	C	None	1	4	12/11/2011
11754	Equisetopsida	Cyperaceae	<i>Carex breviculmis</i>	None	C	None	0	1	22/07/2010
14779	Equisetopsida	Cyperaceae	<i>Carex inversa</i>	knob sedge	C	None	0	1	22/07/2010
14670	Equisetopsida	Cyperaceae	<i>Cyperus</i>	None	None	None	0	4	06/12/2011
17510	Equisetopsida	Cyperaceae	<i>Cyperus aquatilis</i>	None	C	None	1	1	31/05/1992
11060	Equisetopsida	Cyperaceae	<i>Cyperus concinnus</i>	None	C	None	1	1	04/03/1997
14661	Equisetopsida	Cyperaceae	<i>Cyperus cyperoides</i>	None	C	None	0	2	22/07/2010
17515	Equisetopsida	Cyperaceae	<i>Cyperus difformis</i>	rice sedge	C	None	1	4	22/07/2010
17516	Equisetopsida	Cyperaceae	<i>Cyperus enervis</i>	None	C	None	0	1	29/04/1995
14656	Equisetopsida	Cyperaceae	<i>Cyperus exaltatus</i>	tall flatsedge	C	None	0	1	31/01/2003
13966	Equisetopsida	Cyperaceae	<i>Cyperus flaccidus</i>	None	C	None	0	8	15/02/2018
17519	Equisetopsida	Cyperaceae	<i>Cyperus fulvus</i>	None	C	None	2	2	15/03/2010
17521	Equisetopsida	Cyperaceae	<i>Cyperus gracilis</i>	None	C	None	3	14	15/02/2018
14657	Equisetopsida	Cyperaceae	<i>Cyperus involucratus</i>	None	None	None	4	4	14/10/2004
11062	Equisetopsida	Cyperaceae	<i>Cyperus papyrus</i>	papyrus	None	None	0	1	31/01/2003
17473	Equisetopsida	Cyperaceae	<i>Cyperus perangustus</i>	None	C	None	0	4	22/07/2010
12420	Equisetopsida	Cyperaceae	<i>Cyperus polystachyos</i>	None	C	None	0	2	15/02/2018
17475	Equisetopsida	Cyperaceae	<i>Cyperus polystachyos</i> var. <i>polystachyos</i>	None	C	None	1	1	14/10/2004
17478	Equisetopsida	Cyperaceae	<i>Cyperus rotundus</i>	nutgrass	None	None	1	1	20/02/1980
14666	Equisetopsida	Cyperaceae	<i>Cyperus scaber</i>	None	C	None	0	1	16/09/1994
14667	Equisetopsida	Cyperaceae	<i>Cyperus scariosus</i>	None	C	None	1	1	31/05/1992
11954	Equisetopsida	Cyperaceae	<i>Cyperus sesquiflorus</i>	None	None	None	1	1	20/02/1980

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11955	Equisetopsida	Cyperaceae	<i>Cyperus tenuispica</i>	None	C	None	0	1	22/07/2010
17340	Equisetopsida	Cyperaceae	<i>Eleocharis cylindrostachys</i>	None	C	None	1	1	31/05/1992
9816	Equisetopsida	Cyperaceae	<i>Eleocharis dietrichiana</i>	None	C	None	1	1	31/05/1992
14579	Equisetopsida	Cyperaceae	<i>Eleocharis dulcis</i>	None	C	None	1	1	31/05/1992
14581	Equisetopsida	Cyperaceae	<i>Eleocharis equisetina</i>	None	C	None	1	1	31/05/1992
11072	Equisetopsida	Cyperaceae	<i>Eleocharis philippinensis</i>	None	C	None	1	2	22/07/2010
17113	Equisetopsida	Cyperaceae	<i>Fimbristylis</i>	None	None	None	0	1	22/07/2010
9376	Equisetopsida	Cyperaceae	<i>Fimbristylis aestivalis</i>	None	C	None	0	4	22/07/2010
10137	Equisetopsida	Cyperaceae	<i>Fimbristylis bisumbellata</i>	None	C	None	0	5	22/07/2010
17107	Equisetopsida	Cyperaceae	<i>Fimbristylis dichotoma</i>	common fringe-rush	C	None	1	12	01/12/2010
17109	Equisetopsida	Cyperaceae	<i>Fimbristylis nutans</i>	None	C	None	0	1	27/10/1998
17111	Equisetopsida	Cyperaceae	<i>Fimbristylis polytrichoides</i>	None	C	None	1	3	22/07/2010
34364	Equisetopsida	Cyperaceae	<i>Fimbristylis quinquangularis</i>	None	C	None	1	2	19/04/1999
14511	Equisetopsida	Cyperaceae	<i>Fimbristylis tristachya</i>	None	C	None	1	1	27/10/1998
17130	Equisetopsida	Cyperaceae	<i>Fuirena ciliaris</i>	None	C	None	0	1	22/07/2010
17078	Equisetopsida	Cyperaceae	<i>Gahnia aspera</i>	None	C	None	2	26	15/02/2018
9381	Equisetopsida	Cyperaceae	<i>Lepidosperma laterale</i>	None	C	None	1	2	04/09/1998
41286	Equisetopsida	Cyperaceae	<i>Machaerina articulata</i>	None	C	None	0	1	31/01/2003
14228	Equisetopsida	Cyperaceae	<i>Scleria mackaviensis</i>	None	C	None	0	17	22/07/2010
11912	Equisetopsida	Cyperaceae	<i>Scleria novae-hollandiae</i>	None	C	None	0	2	22/07/2010
17497	Equisetopsida	Davalliaceae	<i>Davallia pyxidata</i>	None	C	None	2	5	24/07/2003
16965	Equisetopsida	Dennstaedtiaceae	<i>Histiopteris incisa</i>	bats-wing fern	C	None	1	1	04/07/2019
16340	Equisetopsida	Dennstaedtiaceae	<i>Pteridium esculentum</i>	common bracken	C	None	1	2	24/07/2003
17547	Equisetopsida	Dicksoniaceae	<i>Calochlaena dubia</i>	None	C	None	1	1	24/07/2003
17438	Equisetopsida	Dioscoreaceae	<i>Dioscorea transversa</i>	native yam	C	None	0	14	22/07/2010
14435	Equisetopsida	Dryopteridaceae	<i>Lastreopsis tenera</i>	None	C	None	2	3	04/07/2019
12178	Equisetopsida	Ebenaceae	<i>Diospyros</i>	None	None	None	0	1	19/06/1983
17439	Equisetopsida	Ebenaceae	<i>Diospyros australis</i>	black plum	C	None	1	10	23/02/2014
17442	Equisetopsida	Ebenaceae	<i>Diospyros fasciculosa</i>	grey ebony	C	None	0	3	22/07/2010
17443	Equisetopsida	Ebenaceae	<i>Diospyros geminata</i>	scaly ebony	C	None	4	29	15/02/2018
17445	Equisetopsida	Ebenaceae	<i>Diospyros humilis</i>	small-leaved ebony	C	None	1	10	15/02/2018
17327	Equisetopsida	Elaeocarpaceae	<i>Elaeocarpus eumundi</i>	Eumundi quandong	C	None	1	1	12/08/1999
14572	Equisetopsida	Elaeocarpaceae	<i>Elaeocarpus obovatus</i>	blueberry ash	C	None	0	3	22/07/2010
41455	Equisetopsida	Elaeocarpaceae	<i>Elaeocarpus obovatus</i> subsp. <i>obovatus</i>	None	C	None	2	2	23/02/2014
18111	Equisetopsida	Ericaceae	<i>Acrotriche aggregata</i>	red cluster heath	C	None	0	1	29/04/1995
16641	Equisetopsida	Ericaceae	<i>Monotoca scoparia</i>	prickly broom heath	C	None	0	1	29/04/1995

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14542	Equisetopsida	Eriocaulaceae	<i>Eriocaulon nanum</i>	None	C	None	1	1	31/05/1992
17288	Equisetopsida	Erythroxylaceae	<i>Erythroxylum australe</i>	cocaine tree	C	None	0	11	19/04/1999
6349	Equisetopsida	Erythroxylaceae	<i>Erythroxylum</i> sp. (Splityard Creek L.Pedley 5360)	None	C	None	1	7	22/07/2010
11364	Equisetopsida	Euphorbiaceae	<i>Acalypha australis</i>	None	None	None	1	1	11/10/2004
11503	Equisetopsida	Euphorbiaceae	<i>Acalypha capillipes</i>	small-leaved acalypha	C	None	0	4	22/07/2010
18091	Equisetopsida	Euphorbiaceae	<i>Acalypha eremorum</i>	soft acalypha	C	None	0	22	22/07/2010
18050	Equisetopsida	Euphorbiaceae	<i>Alchornea ilicifolia</i>	native holly	C	None	0	14	22/07/2010
14825	Equisetopsida	Euphorbiaceae	<i>Baloghia inophylla</i>	scrub bloodwood	C	None	4	9	11/11/2011
11329	Equisetopsida	Euphorbiaceae	<i>Claoxylon</i>	None	None	None	0	1	16/04/1999
17613	Equisetopsida	Euphorbiaceae	<i>Claoxylon tenerifolium</i>	Queensland brittlewood	C	None	0	5	22/07/2010
13956	Equisetopsida	Euphorbiaceae	<i>Croton acronychioides</i>	thick-leaved croton	C	None	1	11	22/07/2010
17561	Equisetopsida	Euphorbiaceae	<i>Croton insularis</i>	Queensland cascarilla	C	None	1	9	22/07/2010
17562	Equisetopsida	Euphorbiaceae	<i>Croton phebaloides</i>	narrow-leaved croton	C	None	0	10	22/07/2010
11494	Equisetopsida	Euphorbiaceae	<i>Croton stigmatosus</i>	white croton	C	None	1	3	19/04/1999
34170	Equisetopsida	Euphorbiaceae	<i>Euphorbia bifida</i>	None	C	None	0	1	27/10/1998
17160	Equisetopsida	Euphorbiaceae	<i>Euphorbia cyathophora</i>	dwarf poinsettia	None	None	4	5	16/12/2004
5309	Equisetopsida	Euphorbiaceae	<i>Euphorbia dallachyana</i>	None	C	None	2	3	22/07/2010
5516	Equisetopsida	Euphorbiaceae	<i>Euphorbia hirta</i>	None	None	None	3	3	11/10/2004
4734	Equisetopsida	Euphorbiaceae	<i>Euphorbia hyssopifolia</i>	None	None	None	2	2	11/10/2004
34392	Equisetopsida	Euphorbiaceae	<i>Euphorbia ophthalmica</i>	None	None	None	1	1	11/10/2004
5519	Equisetopsida	Euphorbiaceae	<i>Euphorbia prostrata</i>	None	None	None	3	3	21/01/2006
9904	Equisetopsida	Euphorbiaceae	<i>Euphorbia tannensis</i>	None	C	None	0	3	22/07/2010
9713	Equisetopsida	Euphorbiaceae	<i>Euphorbia tirucalli</i>	naked lady	None	None	1	1	14/10/2004
36308	Equisetopsida	Euphorbiaceae	<i>Euphorbia tithymaloides</i> subsp. <i>smallii</i>	None	None	None	1	1	09/01/1988
17179	Equisetopsida	Euphorbiaceae	<i>Excoecaria dallachyana</i>	scrub poison tree	C	None	1	11	22/07/2010
5284	Equisetopsida	Euphorbiaceae	<i>Homalanthus populifolius</i>	None	C	None	1	1	17/04/1997

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16841	Equisetopsida	Euphorbiaceae	<i>Jatropha gossypifolia</i>	bellyache bush	None	None	1	1	10/03/2005
16753	Equisetopsida	Euphorbiaceae	<i>Macaranga tanarius</i>	macaranga	C	None	0	1	31/01/2003
11312	Equisetopsida	Euphorbiaceae	<i>Mallotus</i>	None	None	None	0	1	19/06/1983
11406	Equisetopsida	Euphorbiaceae	<i>Mallotus claoxyloides</i>	green kamala	C	None	1	22	10/11/2011
14380	Equisetopsida	Euphorbiaceae	<i>Mallotus discolor</i>	white kamala	C	None	0	1	19/04/1999
8257	Equisetopsida	Euphorbiaceae	<i>Mallotus ficifolius</i>	None	C	None	1	1	17/08/2000
16715	Equisetopsida	Euphorbiaceae	<i>Mallotus philippensis</i>	red kamala	C	None	2	29	15/02/2018
11252	Equisetopsida	Euphorbiaceae	<i>Ricinocarpos ledifolius</i>	scrub wedding bush	C	None	0	2	19/04/1999
11288	Equisetopsida	Euphorbiaceae	<i>Ricinus communis</i>	castor oil bush	None	None	1	1	14/10/2004
11246	Equisetopsida	Euphorbiaceae	<i>Tragia novae-hollandiae</i>	stinging-vine	C	None	1	4	19/04/1999
24698	Equisetopsida	Fissidentaceae	<i>Fissidens asplenioides</i>	None	C	None	1	1	24/06/2011
25615	Equisetopsida	Frullaniaceae	<i>Frullania</i>	None	None	None	1	1	24/06/2011
29264	Equisetopsida	Funariaceae	<i>Entosthodon apophysatus</i>	None	C	None	1	1	24/06/2011
30324	Equisetopsida	Gentianaceae	<i>Schenkia australis</i>	None	C	None	1	2	22/07/2010
10944	Equisetopsida	Gleicheniaceae	<i>Sticherus flabellatus</i> var. <i>flabellatus</i>	None	C	None	2	2	04/09/1998
17060	Equisetopsida	Goodeniaceae	<i>Goodenia glabra</i>	None	C	None	1	2	22/07/2010
17065	Equisetopsida	Goodeniaceae	<i>Goodenia rotundifolia</i>	None	C	None	0	1	06/12/2011
9188	Equisetopsida	Goodeniaceae	<i>Scaevola taccada</i>	Cardwell cabbage	C	None	1	1	30/01/1991
17017	Equisetopsida	Haloragaceae	<i>Haloragis heterophylla</i>	rough raspweed	C	None	1	2	27/10/1998
9820	Equisetopsida	Haloragaceae	<i>Haloragis stricta</i>	None	C	None	0	3	22/07/2010
12249	Equisetopsida	Hemerocallidaceae	<i>Dianella</i>	None	None	None	0	11	01/12/2010
13239	Equisetopsida	Hemerocallidaceae	<i>Dianella brevipedunculata</i>	None	C	None	1	8	22/07/2010
17464	Equisetopsida	Hemerocallidaceae	<i>Dianella caerulea</i>	None	C	None	0	16	15/02/2018
17463	Equisetopsida	Hemerocallidaceae	<i>Dianella caerulea</i> var. <i>vannata</i>	None	C	None	1	2	10/05/2019
10281	Equisetopsida	Hemerocallidaceae	<i>Dianella longifolia</i>	None	C	None	1	3	22/07/2010
12843	Equisetopsida	Hemerocallidaceae	<i>Dianella rara</i>	None	C	None	0	1	27/10/1998
14594	Equisetopsida	Hemerocallidaceae	<i>Dianella revoluta</i>	None	C	None	0	4	22/07/2010
15350	Equisetopsida	Hemerocallidaceae	<i>Geitonoplesium cymosum</i>	scrambling lily	C	None	0	13	22/07/2010

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40443	Equisetopsida	Hemerocallidaceae	<i>Geitonoplesium cymosum forma album</i>	None	C	None	0	1	15/02/2018
15308	Equisetopsida	Hernandiaceae	<i>Gyrocarpus americanus</i>	None	C	None	0	4	19/04/1999
8394	Equisetopsida	Hernandiaceae	<i>Gyrocarpus americanus subsp. americanus</i>	None	C	None	1	5	22/07/2010
13625	Equisetopsida	Hernandiaceae	<i>Hernandia bivalvis</i>	cudgerie	NT	None	4	9	22/07/2010
14339	Equisetopsida	Hydrocharitaceae	<i>Ottelia ovalifolia</i>	swamp lily	C	None	0	1	31/01/2003
31079	Equisetopsida	Hypopterygiaceae	<i>Hypopterygium discolor</i>	None	C	None	1	1	24/06/2011
15974	Equisetopsida	Johnsoniaceae	<i>Tricoryne elatior</i>	yellow autumn lily	C	None	0	1	27/10/1998
13896	Equisetopsida	Juncaceae	<i>Juncus</i>	None	None	None	0	1	06/12/2011
16844	Equisetopsida	Juncaceae	<i>Juncus continuus</i>	None	C	None	0	1	22/07/2010
13895	Equisetopsida	Juncaceae	<i>Juncus polyanthemus</i>	None	C	None	1	3	22/07/2010
34790	Equisetopsida	Juncaginaceae	<i>Cycnogeton procerus</i>	None	C	None	0	1	01/02/1993
15667	Equisetopsida	Lamiaceae	<i>Ajuga australis</i>	Australian bugle	C	None	0	1	19/04/1999
10005	Equisetopsida	Lamiaceae	<i>Anisomeles</i>	None	None	None	0	3	22/07/2010
35720	Equisetopsida	Lamiaceae	<i>Anisomeles moschata</i>	None	C	None	3	3	18/05/2021
12453	Equisetopsida	Lamiaceae	<i>Callicarpa pedunculata</i>	velvet leaf	C	None	1	1	25/01/1994
12413	Equisetopsida	Lamiaceae	<i>Clerodendrum</i>	None	None	None	0	1	19/06/1983
17628	Equisetopsida	Lamiaceae	<i>Clerodendrum floribundum</i>	None	C	None	0	18	15/02/2018
19784	Equisetopsida	Lamiaceae	<i>Clerodendrum heterophyllum</i>	None	None	None	1	1	20/02/1980
17629	Equisetopsida	Lamiaceae	<i>Clerodendrum inerme</i>	coastal lolly bush	C	None	0	1	19/06/1983
12462	Equisetopsida	Lamiaceae	<i>Clerodendrum tomentosum</i>	None	C	None	0	2	19/04/1999
41035	Equisetopsida	Lamiaceae	<i>Coleus australis</i>	None	C	None	3	5	19/04/1999
17100	Equisetopsida	Lamiaceae	<i>Glossocarya hemiderma</i>	None	C	None	0	22	22/07/2010
15270	Equisetopsida	Lamiaceae	<i>Lamium amplexicaule</i>	deadnettle	None	None	1	1	19/09/2007
11835	Equisetopsida	Lamiaceae	<i>Leonotis nepetifolia</i>	None	None	None	0	1	22/07/2010
18679	Equisetopsida	Lamiaceae	<i>Leucas lavandulifolia</i>	None	None	None	1	2	31/01/2003
14316	Equisetopsida	Lamiaceae	<i>Pityrodia salviifolia</i>	pityrodia	C	None	1	2	29/04/1995
36200	Equisetopsida	Lamiaceae	<i>Teucrium junceum</i>	None	C	None	0	1	22/07/2010
15961	Equisetopsida	Lamiaceae	<i>Vitex acuminata</i>	None	C	None	0	2	19/04/1999
18814	Equisetopsida	Lamiaceae	<i>Vitex lignum-vitae</i>	None	C	None	2	5	19/04/1999
15964	Equisetopsida	Lamiaceae	<i>Vitex melicopea</i>	None	C	None	1	2	22/07/2010
15965	Equisetopsida	Lamiaceae	<i>Vitex rotundifolia</i>	None	C	None	0	1	19/06/1983
14118	Equisetopsida	Lamiaceae	<i>Vitex trifolia</i>	None	C	None	0	1	19/06/1983
15914	Equisetopsida	Lamiaceae	<i>Vitex trifolia var. trifolia</i>	None	C	None	0	1	22/07/2010
11855	Equisetopsida	Lauraceae	<i>Cassytha</i>	None	None	None	0	4	01/12/2010
17703	Equisetopsida	Lauraceae	<i>Cassytha filiformis</i>	dodder laurel	C	None	0	6	22/07/2010

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17705	Equisetopsida	Lauraceae	<i>Cassytha pubescens</i>	downy devil's twine	C	None	0	4	15/02/2018
17543	Equisetopsida	Lauraceae	<i>Cryptocarya</i>	None	None	None	0	1	19/06/1983
17570	Equisetopsida	Lauraceae	<i>Cryptocarya bidwillii</i>	yellow laurel	C	None	0	2	19/04/1999
17541	Equisetopsida	Lauraceae	<i>Cryptocarya triplinervis</i>	None	C	None	0	10	01/12/2008
17539	Equisetopsida	Lauraceae	<i>Cryptocarya triplinervis</i> var. <i>pubens</i>	None	C	None	1	2	22/07/2010
17303	Equisetopsida	Lauraceae	<i>Endiandra discolor</i>	domatia tree	C	None	1	1	12/08/1999
11707	Equisetopsida	Laxmanniaceae	<i>Cordylone manners-suttoniae</i>	None	C	None	1	1	31/03/1995
15339	Equisetopsida	Laxmanniaceae	<i>Eustrephus latifolius</i>	wombat berry	C	None	1	40	10/05/2019
40458	Equisetopsida	Laxmanniaceae	<i>Eustrephus latifolius</i> subforma <i>fimbriatus</i>	None	C	None	0	1	15/02/2018
12409	Equisetopsida	Laxmanniaceae	<i>Lomandra</i>	None	None	None	0	2	06/12/2011
13587	Equisetopsida	Laxmanniaceae	<i>Lomandra confertifolia</i>	None	C	None	1	6	29/06/2019
14415	Equisetopsida	Laxmanniaceae	<i>Lomandra confertifolia</i> subsp. <i>pallida</i>	None	C	None	2	13	22/07/2010
12406	Equisetopsida	Laxmanniaceae	<i>Lomandra gracilis</i>	None	C	None	0	1	31/01/2003
16776	Equisetopsida	Laxmanniaceae	<i>Lomandra longifolia</i>	None	C	None	1	16	15/02/2018
18792	Equisetopsida	Laxmanniaceae	<i>Lomandra multiflora</i>	None	C	None	0	7	22/07/2010
16777	Equisetopsida	Laxmanniaceae	<i>Lomandra multiflora</i> subsp. <i>multiflora</i>	None	C	None	0	1	15/02/2018
15149	Equisetopsida	Lecythidaceae	<i>Planchonia careya</i>	cockatoo apple	C	None	0	26	15/02/2018
15827	Equisetopsida	Leguminosae	<i>Acacia aulacocarpa</i>	None	C	None	0	21	15/02/2018
15829	Equisetopsida	Leguminosae	<i>Acacia bancroftiorum</i>	None	C	None	1	1	29/06/2019
15790	Equisetopsida	Leguminosae	<i>Acacia concurrens</i>	None	C	None	0	1	06/12/2011
15793	Equisetopsida	Leguminosae	<i>Acacia crassa</i> subsp. <i>longicoma</i>	None	C	None	2	4	16/09/1994
15796	Equisetopsida	Leguminosae	<i>Acacia decora</i>	pretty wattle	C	None	0	5	15/02/2018
21915	Equisetopsida	Leguminosae	<i>Acacia disparrima</i> subsp. <i>disparrima</i>	None	C	None	2	31	15/02/2018
15798	Equisetopsida	Leguminosae	<i>Acacia excelsa</i>	None	C	None	0	1	22/07/2010
14065	Equisetopsida	Leguminosae	<i>Acacia excelsa</i> subsp. <i>excelsa</i>	None	C	None	1	2	06/12/2011
15799	Equisetopsida	Leguminosae	<i>Acacia falcata</i>	sickle wattle	C	None	0	1	06/12/2011
15800	Equisetopsida	Leguminosae	<i>Acacia falciformis</i>	broad-leaved hickory	C	None	0	2	19/04/1999
15744	Equisetopsida	Leguminosae	<i>Acacia fasciculifera</i>	scaly bark	C	None	1	17	15/02/2018
15745	Equisetopsida	Leguminosae	<i>Acacia fimbriata</i>	Brisbane golden wattle	C	None	0	1	31/01/2003
15746	Equisetopsida	Leguminosae	<i>Acacia flavescens</i>	toothed wattle	C	None	0	3	15/02/2018
15755	Equisetopsida	Leguminosae	<i>Acacia holosericea</i>	None	C	None	1	3	01/12/2010

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15758	Equisetopsida	Leguminosae	<i>Acacia implexa</i>	lightwood	C	None	1	1	05/12/1990
14939	Equisetopsida	Leguminosae	<i>Acacia julifera</i>	None	C	None	0	3	22/07/2010
15765	Equisetopsida	Leguminosae	<i>Acacia leiocalyx</i>	None	C	None	0	9	15/02/2018
14066	Equisetopsida	Leguminosae	<i>Acacia leiocalyx subsp. leiocalyx</i>	None	C	None	1	11	01/12/2010
15772	Equisetopsida	Leguminosae	<i>Acacia maidenii</i>	Maiden's wattle	C	None	0	8	22/07/2010
15720	Equisetopsida	Leguminosae	<i>Acacia melanoxylon</i>	blackwood	C	None	0	2	01/12/2010
15734	Equisetopsida	Leguminosae	<i>Acacia penninervis var. longiracemosa</i>	None	C	None	0	1	29/04/1995
15739	Equisetopsida	Leguminosae	<i>Acacia podalyriifolia</i>	Queensland silver wattle	C	None	0	1	31/01/2003
15694	Equisetopsida	Leguminosae	<i>Acacia salicina</i>	doolan	C	None	0	2	01/12/2008
15663	Equisetopsida	Leguminosae	<i>Aeschynomene brevifolia</i>	None	C	None	3	4	27/10/1998
15664	Equisetopsida	Leguminosae	<i>Aeschynomene indica</i>	budda pea	C	None	1	2	22/07/2010
11510	Equisetopsida	Leguminosae	<i>Albizia lebbek</i>	Indian siris	C	None	2	3	22/07/2010
20140	Equisetopsida	Leguminosae	<i>Alysicarpus</i>	None	None	None	0	1	27/10/1998
15671	Equisetopsida	Leguminosae	<i>Alysicarpus vaginalis</i>	None	None	None	1	2	22/07/2010
11516	Equisetopsida	Leguminosae	<i>Archidendropsis thozetiana</i>	None	C	None	3	24	22/07/2010
15609	Equisetopsida	Leguminosae	<i>Austrosteenisia blackii</i>	bloodvine	C	None	0	14	22/07/2010
18175	Equisetopsida	Leguminosae	<i>Austrosteenisia blackii var. blackii</i>	None	C	None	1	1	31/05/1971
15614	Equisetopsida	Leguminosae	<i>Barklya syringifolia</i>	golden shower tree	C	None	1	17	22/07/2010
10918	Equisetopsida	Leguminosae	<i>Bauhinia variegata</i>	None	None	None	0	1	31/01/2003
18899	Equisetopsida	Leguminosae	<i>Cajanus reticulatus</i>	None	C	None	0	1	22/07/2010
15556	Equisetopsida	Leguminosae	<i>Cajanus reticulatus var. reticulatus</i>	None	C	None	1	2	15/02/2018
15844	Equisetopsida	Leguminosae	<i>Canavalia rosea</i>	coastal jack bean	C	None	0	1	19/06/1983
15536	Equisetopsida	Leguminosae	<i>Cassia</i>	None	None	None	0	1	06/12/2011
21988	Equisetopsida	Leguminosae	<i>Cassia brewsteri</i>	None	C	None	0	1	22/07/2010
8173	Equisetopsida	Leguminosae	<i>Chamaecrista absus var. absus</i>	None	C	None	4	4	25/01/1994
18870	Equisetopsida	Leguminosae	<i>Chamaecrista concinna</i>	None	C	None	1	1	09/07/1989
7175	Equisetopsida	Leguminosae	<i>Chamaecrista mimosoides</i>	dwarf cassia	C	None	0	2	06/12/2011
21834	Equisetopsida	Leguminosae	<i>Chamaecrista nomame</i>	None	C	None	0	5	22/07/2010
7678	Equisetopsida	Leguminosae	<i>Chamaecrista nomame var. nomame</i>	None	C	None	3	3	25/01/1994
22041	Equisetopsida	Leguminosae	<i>Chamaecrista rotundifolia</i>	None	None	None	1	1	03/03/2005
8408	Equisetopsida	Leguminosae	<i>Chamaecrista rotundifolia var. rotundifolia</i>	None	None	None	3	3	03/03/2005
15501	Equisetopsida	Leguminosae	<i>Clitoria ternatea</i>	butterfly pea	None	None	4	4	23/02/2014
15478	Equisetopsida	Leguminosae	<i>Crotalaria</i>	None	None	None	0	2	06/12/2011
14693	Equisetopsida	Leguminosae	<i>Crotalaria brevis</i>	None	C	None	0	4	22/07/2010
15517	Equisetopsida	Leguminosae	<i>Crotalaria calycina</i>	None	C	None	1	1	14/04/1989
15521	Equisetopsida	Leguminosae	<i>Crotalaria goreensis</i>	gambia pea	None	None	1	3	15/02/2018

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14684	Equisetopsida	Leguminosae	<i>Crotalaria incana</i> subsp. <i>incana</i>	None	None	None	1	1	20/02/1980
15469	Equisetopsida	Leguminosae	<i>Crotalaria medicaginea</i>	trefoil rattlepod	C	None	0	3	01/12/2010
26438	Equisetopsida	Leguminosae	<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	None	C	None	1	1	14/04/1989
15471	Equisetopsida	Leguminosae	<i>Crotalaria montana</i>	None	C	None	0	18	22/07/2010
27173	Equisetopsida	Leguminosae	<i>Crotalaria montana</i> var. <i>angustifolia</i>	None	C	None	2	2	14/04/1989
18779	Equisetopsida	Leguminosae	<i>Crotalaria pallida</i>	None	None	None	0	4	22/07/2010
5917	Equisetopsida	Leguminosae	<i>Crotalaria pallida</i> var. <i>obovata</i>	None	None	None	4	4	07/05/2019
34548	Equisetopsida	Leguminosae	<i>Crotalaria trichotoma</i>	None	None	None	1	1	11/10/2004
9165	Equisetopsida	Leguminosae	<i>Delonix regia</i>	poinciana	None	None	1	2	14/10/2004
15462	Equisetopsida	Leguminosae	<i>Desmodium</i>	None	None	None	1	2	27/10/1998
14642	Equisetopsida	Leguminosae	<i>Desmodium gangeticum</i>	None	C	None	1	7	22/07/2010
15457	Equisetopsida	Leguminosae	<i>Desmodium gunnii</i>	None	C	None	1	1	17/04/1997
18774	Equisetopsida	Leguminosae	<i>Desmodium heterocarpon</i>	None	C	None	0	1	22/07/2010
14644	Equisetopsida	Leguminosae	<i>Desmodium heterocarpon</i> var. <i>strigosum</i>	None	C	None	1	1	12/05/1996
15458	Equisetopsida	Leguminosae	<i>Desmodium intortum</i>	None	None	None	0	1	15/02/2018
2870	Equisetopsida	Leguminosae	<i>Desmodium pullenii</i>	None	C	None	1	1	17/04/1997
15460	Equisetopsida	Leguminosae	<i>Desmodium rhytidophyllum</i>	None	C	None	1	19	10/05/2019
13037	Equisetopsida	Leguminosae	<i>Desmodium tortuosum</i>	Florida beggar-weed	None	None	1	1	14/10/2004
15461	Equisetopsida	Leguminosae	<i>Desmodium triflorum</i>	None	None	None	1	10	15/02/2018
13935	Equisetopsida	Leguminosae	<i>Desmodium varians</i>	slender tick trefoil	C	None	1	3	22/07/2010
15334	Equisetopsida	Leguminosae	<i>Erythrina vespertilio</i>	None	C	None	1	9	07/10/2019
32528	Equisetopsida	Leguminosae	<i>Erythrina vespertilio</i> subsp. <i>vespertilio</i>	None	C	None	0	1	01/12/2010
13001	Equisetopsida	Leguminosae	<i>Flemingia lineata</i>	None	C	None	1	1	09/02/1989
13000	Equisetopsida	Leguminosae	<i>Flemingia parviflora</i>	flemingia	C	None	0	12	15/02/2018
15343	Equisetopsida	Leguminosae	<i>Galactia tenuiflora</i>	None	C	None	0	5	22/07/2010
14524	Equisetopsida	Leguminosae	<i>Glycine</i>	None	None	None	1	3	10/05/2019
15352	Equisetopsida	Leguminosae	<i>Glycine clandestina</i> var. <i>clandestina</i>	None	C	None	1	1	15/05/2019
15351	Equisetopsida	Leguminosae	<i>Glycine clandestina</i> var. <i>sericea</i>	None	C	None	0	1	22/07/2010
15355	Equisetopsida	Leguminosae	<i>Glycine microphylla</i>	None	C	None	1	1	15/05/2019
15356	Equisetopsida	Leguminosae	<i>Glycine tabacina</i>	glycine pea	C	None	0	23	01/12/2010
15357	Equisetopsida	Leguminosae	<i>Glycine tomentella</i>	woolly glycine	C	None	2	5	22/07/2010
15309	Equisetopsida	Leguminosae	<i>Hardenbergia violacea</i>	None	C	None	1	8	15/02/2018
15327	Equisetopsida	Leguminosae	<i>Hovea longipes</i>	brush hovea	C	None	0	3	22/07/2010
15291	Equisetopsida	Leguminosae	<i>Indigofera australis</i>	None	C	None	0	2	22/07/2010
18672	Equisetopsida	Leguminosae	<i>Indigofera australis</i> subsp. <i>australis</i>	None	C	None	2	3	10/05/2019
15294	Equisetopsida	Leguminosae	<i>Indigofera hirsuta</i>	hairy indigo	C	None	3	10	15/02/2018

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15295	Equisetopsida	Leguminosae	<i>Indigofera linifolia</i>	None	C	None	3	4	15/02/2018
15296	Equisetopsida	Leguminosae	<i>Indigofera linnaei</i>	Birdsville indigo	C	None	1	2	15/02/2018
15297	Equisetopsida	Leguminosae	<i>Indigofera pratensis</i>	None	C	None	0	1	15/02/2018
10846	Equisetopsida	Leguminosae	<i>Indigofera spicata</i>	creeping indigo	None	None	1	2	01/12/2010
15299	Equisetopsida	Leguminosae	<i>Indigofera tinctoria</i>	None	None	None	1	1	20/02/1980
12965	Equisetopsida	Leguminosae	<i>Indigofera trifoliata</i>	None	C	None	1	1	27/10/1998
15255	Equisetopsida	Leguminosae	<i>Isotropis filicaulis</i>	None	C	None	0	2	22/07/2010
15260	Equisetopsida	Leguminosae	<i>Jacksonia scoparia</i>	None	C	None	0	9	01/12/2010
15217	Equisetopsida	Leguminosae	<i>Leptosema oxylobioides</i>	None	C	None	1	1	31/12/1968
8865	Equisetopsida	Leguminosae	<i>Leucaena leucocephala</i> subsp. <i>glabrata</i>	None	None	None	2	2	14/10/2004
15235	Equisetopsida	Leguminosae	<i>Macroptilium atropurpureum</i>	siratro	None	None	1	7	15/02/2018
14426	Equisetopsida	Leguminosae	<i>Macroptilium lathyroides</i>	None	None	None	1	3	22/07/2010
18221	Equisetopsida	Leguminosae	<i>Macroptilium lathyroides</i> var. <i>semierectum</i>	None	None	None	1	1	20/02/1980
18762	Equisetopsida	Leguminosae	<i>Macrotyloma axillare</i> var. <i>axillare</i>	None	None	None	1	1	14/10/2004
9873	Equisetopsida	Leguminosae	<i>Medicago polymorpha</i>	burr medic	None	None	2	4	15/02/2018
22928	Equisetopsida	Leguminosae	<i>Medicago sativa</i> subsp. <i>sativa</i>	None	None	None	1	1	20/02/1980
36115	Equisetopsida	Leguminosae	<i>Mezoneuron nitens</i>	None	C	None	0	1	01/12/2008
36129	Equisetopsida	Leguminosae	<i>Mezoneuron scortechinii</i>	None	C	None	0	5	19/04/1999
10860	Equisetopsida	Leguminosae	<i>Mimosa pudica</i>	None	None	None	0	1	15/02/2018
15206	Equisetopsida	Leguminosae	<i>Neptunia</i>	None	None	None	0	1	01/12/2010
14370	Equisetopsida	Leguminosae	<i>Neptunia gracilis</i> forma <i>gracilis</i>	None	C	None	1	5	22/07/2010
12902	Equisetopsida	Leguminosae	<i>Peltophorum pterocarpum</i>	yellow poinciana	None	None	1	1	14/10/2004
6007	Equisetopsida	Leguminosae	<i>Podolobium aciculiferum</i>	None	C	None	2	3	29/08/1999
15093	Equisetopsida	Leguminosae	<i>Pycnospora lutescens</i>	pycnospora	C	None	0	1	22/07/2010
15099	Equisetopsida	Leguminosae	<i>Rhynchosia acuminatissima</i>	None	C	None	0	4	22/07/2010
14257	Equisetopsida	Leguminosae	<i>Rhynchosia minima</i>	None	C	None	0	4	01/12/2010
18867	Equisetopsida	Leguminosae	<i>Senna gaudichaudii</i>	None	C	None	5	10	07/05/2019
14196	Equisetopsida	Leguminosae	<i>Senna occidentalis</i>	coffee senna	None	None	1	3	22/07/2010
15073	Equisetopsida	Leguminosae	<i>Senna pendula</i> var. <i>glabrata</i>	Easter cassia	None	None	3	4	22/07/2010
8199	Equisetopsida	Leguminosae	<i>Senna surattensis</i>	None	C	None	0	3	22/07/2010
13072	Equisetopsida	Leguminosae	<i>Sesbania</i>	None	None	None	0	1	01/12/2010
18750	Equisetopsida	Leguminosae	<i>Sesbania cannabina</i>	None	C	None	0	1	12/11/2008
15079	Equisetopsida	Leguminosae	<i>Sesbania cannabina</i> var. <i>cannabina</i>	None	C	None	1	1	20/02/1980
36634	Equisetopsida	Leguminosae	<i>Solori involuta</i>	None	C	None	0	2	19/04/1999

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15040	Equisetopsida	Leguminosae	<i>Sophora tomentosa</i> subsp. <i>australis</i>	None	C	None	0	1	19/06/1983
15011	Equisetopsida	Leguminosae	<i>Stylosanthes guianensis</i>	None	None	None	0	1	22/07/2010
15012	Equisetopsida	Leguminosae	<i>Stylosanthes humilis</i>	Townsville stylo	None	None	1	1	20/02/1980
12876	Equisetopsida	Leguminosae	<i>Stylosanthes scabra</i>	None	None	None	2	13	15/02/2018
12879	Equisetopsida	Leguminosae	<i>Tamarindus indica</i>	None	None	None	1	1	26/11/1987
15019	Equisetopsida	Leguminosae	<i>Tephrosia astragaloides</i>	None	C	None	2	2	23/02/2014
27745	Equisetopsida	Leguminosae	<i>Tephrosia filipes</i>	None	C	None	0	1	31/01/2003
15020	Equisetopsida	Leguminosae	<i>Tephrosia filipes</i> subsp. <i>filipes</i>	None	C	None	3	5	06/12/2011
15021	Equisetopsida	Leguminosae	<i>Tephrosia juncea</i>	None	C	None	0	7	22/07/2010
15023	Equisetopsida	Leguminosae	<i>Tephrosia purpurea</i> var. <i>sericea</i>	None	C	None	0	3	22/07/2010
14149	Equisetopsida	Leguminosae	<i>Tephrosia rufula</i>	None	C	None	2	3	23/02/2013
21665	Equisetopsida	Leguminosae	<i>Trifolium</i>	None	None	None	0	1	01/12/2010
14990	Equisetopsida	Leguminosae	<i>Trifolium repens</i> var. <i>repens</i>	white clover	None	None	1	2	11/10/2004
14998	Equisetopsida	Leguminosae	<i>Uraria lagopodioides</i>	None	C	None	0	2	22/07/2010
12890	Equisetopsida	Leguminosae	<i>Uraria picta</i>	None	C	None	1	1	04/03/1997
30907	Equisetopsida	Leguminosae	<i>Vachellia bidwillii</i>	None	C	None	0	4	15/02/2018
14952	Equisetopsida	Leguminosae	<i>Vigna lanceolata</i>	None	C	None	0	1	31/01/2003
10123	Equisetopsida	Leguminosae	<i>Vigna lanceolata</i> var. <i>lanceolata</i>	None	C	None	0	2	22/07/2010
10196	Equisetopsida	Leguminosae	<i>Vigna vexillata</i> var. <i>angustifolia</i>	None	C	None	0	1	31/01/2003
21949	Equisetopsida	Leguminosae	<i>Zornia dyctiocarpa</i>	None	C	None	0	1	31/01/2003
14919	Equisetopsida	Leguminosae	<i>Zornia floribunda</i>	None	C	None	0	1	27/10/1998
13734	Equisetopsida	Leguminosae	<i>Zornia muriculata</i>	None	C	None	0	1	22/07/2010
14923	Equisetopsida	Leguminosae	<i>Zornia muriculata</i> subsp. <i>muriculata</i>	None	C	None	2	2	10/05/2019
9417	Equisetopsida	Lentibulariaceae	<i>Utricularia gibba</i>	floating bladderwort	C	None	1	1	14/10/2004
41230	Equisetopsida	Linderniaceae	<i>Torenia crustacea</i>	None	C	None	1	5	22/07/2010
5943	Equisetopsida	Loganiaceae	<i>Mitrasacme nudicaulis</i> var. <i>nudicaulis</i>	None	C	None	1	1	23/07/1989
7462	Equisetopsida	Loganiaceae	<i>Strychnos psilosperma</i>	strychnine tree	C	None	2	25	22/07/2010
13059	Equisetopsida	Loranthaceae	<i>Amyema biniflora</i>	None	C	None	1	1	24/11/1990
17988	Equisetopsida	Loranthaceae	<i>Amyema congener</i> subsp. <i>rotundifolia</i>	None	C	None	2	3	22/07/2010
14850	Equisetopsida	Loranthaceae	<i>Amyema conspicua</i> subsp. <i>conspicua</i>	None	C	None	0	1	22/07/2010
17991	Equisetopsida	Loranthaceae	<i>Amyema miquelii</i>	None	C	None	0	2	22/07/2010
17995	Equisetopsida	Loranthaceae	<i>Amylothea dictyophleba</i>	None	C	None	2	3	22/07/2010
13236	Equisetopsida	Loranthaceae	<i>Dendrophthoe glabrescens</i>	None	C	None	0	1	31/01/2003
14419	Equisetopsida	Loranthaceae	<i>Lysiana maritima</i>	None	C	None	1	1	26/01/2006
11979	Equisetopsida	Lythraceae	<i>Ammannia multiflora</i>	jerry-jerry	C	None	0	5	22/07/2010

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18090	Equisetopsida	Malvaceae	<i>Abutilon</i>	None	None	None	0	3	01/12/2008
31516	Equisetopsida	Malvaceae	<i>Abutilon albescens</i>	None	C	None	0	1	19/06/1983
18081	Equisetopsida	Malvaceae	<i>Abutilon auritum</i>	Chinese lantern	C	None	0	9	22/07/2010
14927	Equisetopsida	Malvaceae	<i>Abutilon grandifolium</i>	None	None	None	0	1	31/01/2003
13048	Equisetopsida	Malvaceae	<i>Abutilon leucopetalum</i>	None	C	None	0	1	19/06/1983
18089	Equisetopsida	Malvaceae	<i>Abutilon oxycarpum</i>	None	C	None	0	5	19/04/1999
8340	Equisetopsida	Malvaceae	<i>Abutilon oxycarpum</i> var. <i>oxycarpum</i>	None	C	None	1	2	10/11/2011
16953	Equisetopsida	Malvaceae	<i>Hibiscus divaricatus</i>	None	C	None	2	14	15/02/2018
16955	Equisetopsida	Malvaceae	<i>Hibiscus heterophyllus</i>	None	C	None	3	13	31/01/2003
16957	Equisetopsida	Malvaceae	<i>Hibiscus meraukensis</i>	Merauke hibiscus	C	None	0	1	16/09/1994
16959	Equisetopsida	Malvaceae	<i>Hibiscus splendens</i>	pink hibiscus	C	None	0	1	01/12/2010
33995	Equisetopsida	Malvaceae	<i>Hibiscus tridactylites</i>	None	C	None	1	1	05/03/2004
16962	Equisetopsida	Malvaceae	<i>Hibiscus vitifolius</i>	None	C	None	0	1	22/07/2010
22230	Equisetopsida	Malvaceae	<i>Malvastrum americanum</i>	None	None	None	0	5	01/12/2010
16718	Equisetopsida	Malvaceae	<i>Malvastrum americanum</i> var. <i>americanum</i>	None	None	None	0	2	17/04/1997
16719	Equisetopsida	Malvaceae	<i>Malvastrum coromandelianum</i>	prickly malvastrum	None	None	0	3	22/07/2010
31326	Equisetopsida	Malvaceae	<i>Malvastrum coromandelianum</i> subsp. <i>coromandelianum</i>	None	None	None	2	2	11/10/2004
16151	Equisetopsida	Malvaceae	<i>Sida</i>	None	None	None	0	4	06/12/2011
16193	Equisetopsida	Malvaceae	<i>Sida acuta</i>	spinyhead sida	None	None	0	1	22/07/2010
16195	Equisetopsida	Malvaceae	<i>Sida cordifolia</i>	None	None	None	2	16	15/02/2018
16196	Equisetopsida	Malvaceae	<i>Sida corrugata</i>	None	C	None	0	1	31/01/2003
22197	Equisetopsida	Malvaceae	<i>Sida hackettiana</i>	None	C	None	2	29	06/12/2011
22198	Equisetopsida	Malvaceae	<i>Sida hackettiana</i> subsp. (Gayndah P.Grimshaw+ PG2388)	None	C	None	0	1	15/02/2018
12920	Equisetopsida	Malvaceae	<i>Sida magnifica</i>	None	C	None	1	1	28/02/1997
16146	Equisetopsida	Malvaceae	<i>Sida rhombifolia</i>	None	None	None	3	20	01/12/2010
22199	Equisetopsida	Malvaceae	<i>Sida</i> sp. (Musselbrook M.B.Thomas+ MRS437)	None	C	None	0	2	22/07/2010
16148	Equisetopsida	Malvaceae	<i>Sida spinosa</i>	spiny sida	None	None	1	2	19/04/1999
15990	Equisetopsida	Malvaceae	<i>Urena lobata</i>	urena weed	None	None	0	1	31/01/2003
12012	Equisetopsida	Marsileaceae	<i>Marsilea crenata</i>	None	C	None	0	1	22/07/2010
12358	Equisetopsida	Marsileaceae	<i>Marsilea mutica</i>	shiny nardoo	C	None	1	3	06/12/2011
17362	Equisetopsida	Meliaceae	<i>Dysoxylum gaudichaudianum</i>	ivory mahogany	C	None	0	1	31/01/2003
16661	Equisetopsida	Meliaceae	<i>Melia azedarach</i>	white cedar	C	None	1	18	09/04/2013
16557	Equisetopsida	Meliaceae	<i>Owenia acidula</i>	emu apple	C	None	0	1	31/01/2003
16559	Equisetopsida	Meliaceae	<i>Owenia venosa</i>	crow's apple	C	None	1	1	22/05/1997
15987	Equisetopsida	Meliaceae	<i>Turraea pubescens</i>	native honeysuckle	C	None	1	29	15/02/2018

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16897	Equisetopsida	Menispermaceae	<i>Hypserpa decumbens</i>	None	C	None	0	7	22/07/2010
16860	Equisetopsida	Menispermaceae	<i>Legnephora moorei</i>	None	C	None	0	1	02/08/1996
14323	Equisetopsida	Menispermaceae	<i>Pleogyne australis</i>	wiry grape	C	None	1	14	19/04/1999
14269	Equisetopsida	Menispermaceae	<i>Sarcopetalum harveyanum</i>	pearl vine	C	None	0	1	22/07/2010
16100	Equisetopsida	Menispermaceae	<i>Stephania japonica</i> var. <i>discolor</i>	None	C	None	0	2	15/02/2018
15998	Equisetopsida	Menispermaceae	<i>Tinospora smilacina</i>	snakevine	C	None	0	9	22/07/2010
14327	Equisetopsida	Menyanthaceae	<i>Nymphoides indica</i>	water snowflake	C	None	1	3	06/12/2011
14519	Equisetopsida	Molluginaceae	<i>Glinus oppositifolius</i>	None	C	None	1	1	11/10/2004
14131	Equisetopsida	Monimiaceae	<i>Wilkiea macrophylla</i>	large-leaved wilkiea	C	None	2	4	10/08/2002
17158	Equisetopsida	Moraceae	<i>Ficus</i>	None	None	None	0	7	06/12/2011
19858	Equisetopsida	Moraceae	<i>Ficus benjamina</i>	None	C	None	0	1	31/01/2003
17132	Equisetopsida	Moraceae	<i>Ficus coronata</i>	creek sandpaper fig	C	None	0	1	19/06/1983
17135	Equisetopsida	Moraceae	<i>Ficus fraseri</i>	white sandpaper fig	C	None	0	1	19/04/1999
35581	Equisetopsida	Moraceae	<i>Ficus henneana</i>	None	C	None	0	1	22/07/2010
13911	Equisetopsida	Moraceae	<i>Ficus microcarpa</i>	None	C	None	0	1	22/07/2010
17143	Equisetopsida	Moraceae	<i>Ficus obliqua</i>	None	C	None	0	7	22/07/2010
17144	Equisetopsida	Moraceae	<i>Ficus opposita</i>	None	C	None	0	15	15/02/2018
17147	Equisetopsida	Moraceae	<i>Ficus racemosa</i>	None	C	None	0	1	22/07/2010
22365	Equisetopsida	Moraceae	<i>Ficus rubiginosa</i> forma <i>glabrescens</i>	None	C	None	1	1	03/09/1985
17155	Equisetopsida	Moraceae	<i>Ficus virens</i>	None	C	None	0	4	22/07/2010
17157	Equisetopsida	Moraceae	<i>Ficus watkinsiana</i>	green-leaved Moreton Bay fig	C	None	0	2	22/07/2010
13825	Equisetopsida	Moraceae	<i>Maclura cochinchinensis</i>	cockspur thorn	C	None	1	3	19/04/1999
9118	Equisetopsida	Moraceae	<i>Streblus brunonianus</i>	whalebone tree	C	None	2	13	04/10/2014
6403	Equisetopsida	Moraceae	<i>Trophis scandens</i>	None	C	None	0	12	22/07/2010
6402	Equisetopsida	Moraceae	<i>Trophis scandens</i> subsp. <i>scandens</i>	None	C	None	0	12	19/04/1999
18035	Equisetopsida	Myrsinaceae	<i>Aegiceras corniculatum</i>	river mangrove	C	None	1	3	09/02/2006
17344	Equisetopsida	Myrsinaceae	<i>Embelia australiana</i>	embelia	C	None	0	2	19/04/1999
30309	Equisetopsida	Myrsinaceae	<i>Myrsine variabilis</i>	None	C	None	2	10	22/07/2010
18104	Equisetopsida	Myrtaceae	<i>Acmena hemilampra</i> subsp. <i>hemilampra</i>	None	C	None	1	1	16/09/2012
17999	Equisetopsida	Myrtaceae	<i>Angophora leiocarpa</i>	rusty gum	C	None	0	1	01/12/2010
13321	Equisetopsida	Myrtaceae	<i>Backhousia kingii</i>	None	C	None	1	2	09/03/2003
6025	Equisetopsida	Myrtaceae	<i>Corymbia</i>	None	None	None	0	1	01/12/2010

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6531	Equisetopsida	Myrtaceae	<i>Corymbia citriodora</i>	spotted gum	C	None	0	12	06/12/2011
26383	Equisetopsida	Myrtaceae	<i>Corymbia citriodora</i> subsp. <i>citriodora</i>	None	C	None	0	9	15/02/2018
6534	Equisetopsida	Myrtaceae	<i>Corymbia clarksoniana</i>	None	C	None	2	22	15/02/2018
6574	Equisetopsida	Myrtaceae	<i>Corymbia erythrophloia</i>	variable-barke d bloodwood	C	None	1	5	15/02/2018
6445	Equisetopsida	Myrtaceae	<i>Corymbia intermedia</i>	pink bloodwood	C	None	1	15	15/02/2018
6532	Equisetopsida	Myrtaceae	<i>Corymbia polycarpa</i>	long-fruited bloodwood	C	None	0	2	19/04/1999
6572	Equisetopsida	Myrtaceae	<i>Corymbia tessellaris</i>	Moreton Bay ash	C	None	0	23	15/02/2018
6418	Equisetopsida	Myrtaceae	<i>Corymbia torelliana</i>	cadaghi	C	None	2	3	16/12/2004
6443	Equisetopsida	Myrtaceae	<i>Corymbia trachyphloia</i> subsp. <i>trachyphloia</i>	None	C	None	0	2	15/02/2018
17207	Equisetopsida	Myrtaceae	<i>Eucalyptus</i>	None	None	None	0	2	27/10/1998
17290	Equisetopsida	Myrtaceae	<i>Eucalyptus acmenoides</i>	None	C	None	2	5	18/05/2021
17252	Equisetopsida	Myrtaceae	<i>Eucalyptus crebra</i>	narrow-leaved red ironbark	C	None	3	47	15/02/2018
17262	Equisetopsida	Myrtaceae	<i>Eucalyptus exserta</i>	Queensland peppermint	C	None	0	16	15/02/2018
13902	Equisetopsida	Myrtaceae	<i>Eucalyptus major</i>	mountain grey gum	C	None	2	2	22/04/1999
17221	Equisetopsida	Myrtaceae	<i>Eucalyptus melanophloia</i>	None	C	None	0	1	15/02/2018
17223	Equisetopsida	Myrtaceae	<i>Eucalyptus melliodora</i>	yellow box	C	None	1	1	02/03/1997
17229	Equisetopsida	Myrtaceae	<i>Eucalyptus moluccana</i>	gum-topped box	C	None	1	10	15/02/2018
12503	Equisetopsida	Myrtaceae	<i>Eucalyptus platyphylla</i>	poplar gum	C	None	1	3	31/01/2003
17204	Equisetopsida	Myrtaceae	<i>Eucalyptus tereticornis</i>	None	C	None	0	32	15/02/2018
26471	Equisetopsida	Myrtaceae	<i>Eucalyptus tereticornis</i> subsp. <i>tereticornis</i>	None	C	None	2	4	06/12/2011
17208	Equisetopsida	Myrtaceae	<i>Eugenia reinwardtiana</i>	beach cherry	C	None	0	1	22/07/2010
12146	Equisetopsida	Myrtaceae	<i>Eugenia uniflora</i>	Brazilian cherry tree	None	None	1	1	15/10/2004
25908	Equisetopsida	Myrtaceae	<i>Gossia acmenoides</i>	None	C	None	0	5	22/07/2010
27383	Equisetopsida	Myrtaceae	<i>Gossia bidwillii</i>	None	C	None	2	16	22/07/2010
13416	Equisetopsida	Myrtaceae	<i>Leptospermum</i>	None	None	None	0	1	31/01/2003
14441	Equisetopsida	Myrtaceae	<i>Leptospermum polygalifolium</i>	tantoon	C	None	1	2	29/04/1995
16780	Equisetopsida	Myrtaceae	<i>Lophostemon confertus</i>	brush box	C	None	2	13	15/02/2018
16730	Equisetopsida	Myrtaceae	<i>Lophostemon suaveolens</i>	swamp box	C	None	0	31	15/02/2018
13430	Equisetopsida	Myrtaceae	<i>Melaleuca</i>	None	None	None	0	1	19/04/1999
16684	Equisetopsida	Myrtaceae	<i>Melaleuca bracteata</i>	None	C	None	0	1	19/04/1999
31373	Equisetopsida	Myrtaceae	<i>Melaleuca citrina</i>	None	C	None	0	1	31/01/2003
18283	Equisetopsida	Myrtaceae	<i>Melaleuca fluviatilis</i>	None	C	None	0	1	22/07/2010
16689	Equisetopsida	Myrtaceae	<i>Melaleuca leucadendra</i>	broad-leaved tea-tree	C	None	0	1	31/01/2003

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18771	Equisetopsida	Myrtaceae	<i>Melaleuca linariifolia</i>	snow-in summer	C	None	0	5	22/07/2010
13828	Equisetopsida	Myrtaceae	<i>Melaleuca nervosa</i>	None	C	None	0	16	22/07/2010
16694	Equisetopsida	Myrtaceae	<i>Melaleuca nodosa</i>	None	C	None	0	1	19/06/1983
16695	Equisetopsida	Myrtaceae	<i>Melaleuca quinquenervia</i>	swamp paperbark	C	None	0	3	01/12/2010
5505	Equisetopsida	Myrtaceae	<i>Melaleuca trichostachya</i>	None	C	None	1	1	17/10/1994
31375	Equisetopsida	Myrtaceae	<i>Melaleuca viminalis</i>	None	C	None	0	3	22/07/2010
16657	Equisetopsida	Myrtaceae	<i>Melaleuca viridiflora</i>	None	C	None	0	4	31/01/2003
16554	Equisetopsida	Myrtaceae	<i>Osbornia octodonta</i>	myrtle mangrove	C	None	1	2	26/01/2005
16288	Equisetopsida	Myrtaceae	<i>Rhodamnia spongiosa</i>	None	C	None	2	3	10/08/2002
16047	Equisetopsida	Myrtaceae	<i>Syzygium luehmannii</i>	None	C	None	0	1	31/01/2003
16571	Equisetopsida	Nephrolepidaceae	<i>Nephrolepis cordifolia</i>	fishbone fern	C	None	0	2	19/04/1999
17826	Equisetopsida	Nyctaginaceae	<i>Boerhavia</i>	None	None	None	0	1	16/04/1999
12868	Equisetopsida	Nyctaginaceae	<i>Boerhavia burbridgeana</i>	None	C	None	1	1	23/02/2007
6062	Equisetopsida	Nyctaginaceae	<i>Boerhavia</i> sp. (<i>Bargara L. Pedley 5382</i>)	None	C	None	1	1	20/02/1980
9478	Equisetopsida	Nyctaginaceae	<i>Bougainvillea glabra</i>	None	None	None	2	2	16/12/2004
16453	Equisetopsida	Nyctaginaceae	<i>Pisonia aculeata</i>	thorny pisonia	C	None	0	1	02/08/1996
19941	Equisetopsida	Nymphaeaceae	<i>Nymphaea caerulea</i>	None	None	None	1	4	06/12/2011
29765	Equisetopsida	Nymphaeaceae	<i>Nymphaea gigantea</i>	None	C	None	1	1	14/10/2004
13390	Equisetopsida	Ochnaceae	<i>Ochna serrulata</i>	ochna	None	None	3	3	16/12/2004
20919	Equisetopsida	Oleaceae	<i>Jasminum</i>	None	None	None	0	1	19/06/1983
16839	Equisetopsida	Oleaceae	<i>Jasminum didymum</i>	None	C	None	0	3	01/12/2008
16836	Equisetopsida	Oleaceae	<i>Jasminum didymum</i> subsp. <i>didymum</i>	None	C	None	0	4	22/07/2010
16837	Equisetopsida	Oleaceae	<i>Jasminum didymum</i> subsp. <i>lineare</i>	None	C	None	0	1	15/02/2018
16838	Equisetopsida	Oleaceae	<i>Jasminum didymum</i> subsp. <i>racemosum</i>	None	C	None	2	26	10/05/2019
9461	Equisetopsida	Oleaceae	<i>Jasminum simplicifolium</i>	None	C	None	0	7	19/04/1999
16840	Equisetopsida	Oleaceae	<i>Jasminum simplicifolium</i> subsp. <i>australiense</i>	None	C	None	0	17	15/02/2018
13835	Equisetopsida	Oleaceae	<i>Notelaea microcarpa</i>	None	C	None	1	16	22/07/2010
16594	Equisetopsida	Oleaceae	<i>Olea paniculata</i>	None	C	None	0	4	15/02/2018
13420	Equisetopsida	Onagraceae	<i>Ludwigia octovalvis</i>	willow primrose	C	None	2	5	06/12/2011
16731	Equisetopsida	Onagraceae	<i>Ludwigia peploides</i> subsp. <i>montevidensis</i>	None	C	None	1	2	14/10/2004
16732	Equisetopsida	Onagraceae	<i>Ludwigia perennis</i>	None	C	None	1	1	14/04/1989
14087	Equisetopsida	Orchidaceae	<i>Acianthus fornicatus</i>	pixie caps	C	None	1	1	17/04/1997
17779	Equisetopsida	Orchidaceae	<i>Bulbophyllum minutissimum</i>	grain-of-wheat orchid	C	None	1	1	17/04/1997
13322	Equisetopsida	Orchidaceae	<i>Caladenia</i>	None	None	None	1	1	04/09/1998

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13444	Equisetopsida	Orchidaceae	<i>Caladenia carnea</i>	None	C	None	2	2	12/08/1999
2163	Equisetopsida	Orchidaceae	<i>Chiloglottis diphylla</i>	None	C	None	1	1	17/04/1997
9265	Equisetopsida	Orchidaceae	<i>Corybas barbarae</i>	helmet orchid	C	None	1	1	17/04/1997
17505	Equisetopsida	Orchidaceae	<i>Cymbidium canaliculatum</i>	None	C	None	1	5	07/10/2019
12828	Equisetopsida	Orchidaceae	<i>Dendrobium discolor</i>	None	C	None	1	2	10/09/1990
14631	Equisetopsida	Orchidaceae	<i>Dendrobium speciosum</i>	None	C	None	0	1	29/04/1995
12792	Equisetopsida	Orchidaceae	<i>Dipodium</i>	None	None	None	0	1	01/12/2008
5768	Equisetopsida	Orchidaceae	<i>Dockrillia bowmanii</i>	scrub pencil orchid	C	None	0	2	22/07/2010
5798	Equisetopsida	Orchidaceae	<i>Dockrillia mortii</i>	None	C	None	0	1	19/06/1983
5803	Equisetopsida	Orchidaceae	<i>Dockrillia schoenina</i>	pencil orchid	C	None	0	1	01/12/2008
8197	Equisetopsida	Orchidaceae	<i>Geodorum densiflorum</i>	pink nodding orchid	C	None	0	3	19/04/1999
16345	Equisetopsida	Orchidaceae	<i>Pterostylis baptistii</i>	king greenhood	C	None	1	1	17/04/1997
9321	Equisetopsida	Orchidaceae	<i>Pterostylis nutans</i>	None	C	None	1	1	30/06/2011
12659	Equisetopsida	Orchidaceae	<i>Sarcochilus dilatatus</i>	brown sarcochilus	C	None	1	1	15/04/1997
24818	Equisetopsida	Orthotrichaceae	<i>Macromitrium aurescens</i>	None	C	None	1	1	25/06/2011
24821	Equisetopsida	Orthotrichaceae	<i>Macromitrium diaphanum</i>	None	C	None	1	1	22/09/2008
16000	Equisetopsida	Osmundaceae	<i>Todea barbara</i>	king fern	C	None	1	1	29/08/1999
12741	Equisetopsida	Oxalidaceae	<i>Oxalis</i>	None	None	None	1	5	22/07/2010
9457	Equisetopsida	Oxalidaceae	<i>Oxalis corniculata</i>	None	None	None	1	3	11/10/2004
12740	Equisetopsida	Oxalidaceae	<i>Oxalis perennans</i>	None	C	None	1	3	22/07/2010
9536	Equisetopsida	Oxalidaceae	<i>Oxalis rubens</i>	None	C	None	1	1	20/02/1980
12866	Equisetopsida	Papaveraceae	<i>Argemone mexicana</i>	prickly poppy	None	None	1	1	14/10/2004
19740	Equisetopsida	Papaveraceae	<i>Argemone ochroleuca</i>	None	None	None	0	1	31/01/2003
17966	Equisetopsida	Papaveraceae	<i>Argemone ochroleuca</i> <i>subsp. ochroleuca</i>	Mexican poppy	None	None	3	3	31/10/2007
16529	Equisetopsida	Passifloraceae	<i>Passiflora aurantia</i>	None	C	None	0	3	22/07/2010
16530	Equisetopsida	Passifloraceae	<i>Passiflora foetida</i>	None	None	None	3	18	15/02/2018
36076	Equisetopsida	Passifloraceae	<i>Passiflora pallida</i>	None	None	None	1	1	20/02/1980
16532	Equisetopsida	Passifloraceae	<i>Passiflora suberosa</i>	corky passion flower	None	None	0	40	22/07/2010
36078	Equisetopsida	Passifloraceae	<i>Passiflora suberosa</i> subsp. <i>litoralis</i>	None	None	None	0	3	15/02/2018
16533	Equisetopsida	Passifloraceae	<i>Passiflora subpeltata</i>	white passion flower	None	None	1	1	17/04/1997
7577	Equisetopsida	Pentapetaceae	<i>Melhania</i>	None	None	None	0	1	19/06/1983
16660	Equisetopsida	Pentapetaceae	<i>Melhania oblongifolia</i>	None	C	None	2	4	07/05/2019
12784	Equisetopsida	Petiveriaceae	<i>Monococcus echinophorus</i>	burr bush	C	None	0	2	19/04/1999
16302	Equisetopsida	Petiveriaceae	<i>Rivina humilis</i>	None	None	None	7	22	22/07/2010

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11367	Equisetopsida	Phyllanthaceae	<i>Actephila sessilifolia</i>	None	C	None	1	2	25/01/1994
17808	Equisetopsida	Phyllanthaceae	<i>Breynia oblongifolia</i>	None	C	None	1	31	15/02/2018
11327	Equisetopsida	Phyllanthaceae	<i>Bridelia exaltata</i>	None	C	None	0	1	31/01/2003
17810	Equisetopsida	Phyllanthaceae	<i>Bridelia leichhardtii</i>	None	C	None	3	27	09/04/2013
17126	Equisetopsida	Phyllanthaceae	<i>Flueggea leucopyrus</i>	None	C	None	0	8	19/04/1999
17096	Equisetopsida	Phyllanthaceae	<i>Glochidion lobocarpum</i>	None	C	None	0	4	22/07/2010
16469	Equisetopsida	Phyllanthaceae	<i>Phyllanthus maderaspatensis</i> var. <i>maderaspatensis</i>	None	C	None	1	1	11/10/2004
18266	Equisetopsida	Phyllanthaceae	<i>Phyllanthus microcladus</i>	None	C	None	1	9	19/04/1999
16473	Equisetopsida	Phyllanthaceae	<i>Phyllanthus virgatus</i>	None	C	None	1	21	01/12/2010
16409	Equisetopsida	Phyllanthaceae	<i>Poranthera microphylla</i>	small poranthera	C	None	0	1	22/07/2010
35882	Equisetopsida	Phyllanthaceae	<i>Synostemon albiflorus</i>	None	C	None	0	6	22/07/2010
16479	Equisetopsida	Phytolaccaceae	<i>Phytolacca octandra</i>	inkweed	None	None	1	1	16/12/2004
17414	Equisetopsida	Picrodendraceae	<i>Dissiliaria muelleri</i>	Mueller's redheart	C	None	4	11	05/04/2000
16505	Equisetopsida	Picrodendraceae	<i>Petalostigma pubescens</i>	quinine tree	C	None	0	21	15/02/2018
12030	Equisetopsida	Pinaceae	<i>Pinus elliotii</i>	slash pine	None	None	0	1	31/01/2003
15143	Equisetopsida	Piperaceae	<i>Peperomia</i>	None	None	None	0	3	19/04/1999
5286	Equisetopsida	Piperaceae	<i>Peperomia leptostachya</i>	None	C	None	0	4	22/07/2010
30283	Equisetopsida	Piperaceae	<i>Piper hederaceum</i>	None	C	None	0	1	04/09/1998
22219	Equisetopsida	Pittosporaceae	<i>Auranticarpa rhombifolia</i>	None	C	None	0	9	19/04/1999
14019	Equisetopsida	Pittosporaceae	<i>Bursaria incana</i>	None	C	None	1	3	22/07/2010
16413	Equisetopsida	Pittosporaceae	<i>Pittosporum</i>	None	None	None	0	1	19/06/1983
16457	Equisetopsida	Pittosporaceae	<i>Pittosporum ferrugineum</i>	None	C	None	0	3	16/04/1999
16459	Equisetopsida	Pittosporaceae	<i>Pittosporum revolutum</i>	yellow pittosporum	C	None	1	4	22/07/2010
22387	Equisetopsida	Pittosporaceae	<i>Pittosporum spinescens</i>	None	C	None	3	26	15/02/2018
16411	Equisetopsida	Pittosporaceae	<i>Pittosporum venulosum</i>	None	C	None	0	2	19/04/1999
14824	Equisetopsida	Plantaginaceae	<i>Bacopa floribunda</i>	None	C	None	1	2	22/07/2010
18225	Equisetopsida	Plantaginaceae	<i>Mecardonia procumbens</i>	None	None	None	1	1	28/02/1997
12727	Equisetopsida	Plantaginaceae	<i>Plantago debilis</i>	shade plantain	C	None	2	2	11/10/2004
16183	Equisetopsida	Plantaginaceae	<i>Scoparia dulcis</i>	scoparia	None	None	1	4	22/07/2010

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13600	Equisetopsida	Plantaginaceae	<i>Stemodia glabella</i>	None	C	None	1	1	04/03/1997
18034	Equisetopsida	Plumbaginaceae	<i>Aegialitis annulata</i>	club mangrove	C	None	0	1	01/02/1993
6651	Equisetopsida	Plumbaginaceae	<i>Limonium solanderi</i>	None	C	None	1	1	20/02/1980
15670	Equisetopsida	Poaceae	<i>Alloterospis semialata</i>	cockatoo grass	C	None	0	6	15/02/2018
15675	Equisetopsida	Poaceae	<i>Ancistrachne uncinulata</i>	hooky grass	C	None	1	16	22/07/2010
14811	Equisetopsida	Poaceae	<i>Aristida</i>	None	None	None	0	2	15/02/2018
13707	Equisetopsida	Poaceae	<i>Aristida calycina</i>	None	C	None	0	2	01/12/2010
15650	Equisetopsida	Poaceae	<i>Aristida caput-medusae</i>	None	C	None	0	1	31/01/2003
11121	Equisetopsida	Poaceae	<i>Aristida gracilipes</i>	None	C	None	0	5	22/07/2010
18398	Equisetopsida	Poaceae	<i>Aristida holathera</i>	None	C	None	0	1	31/01/2003
15656	Equisetopsida	Poaceae	<i>Aristida leptopoda</i>	white speargrass	C	None	0	1	15/02/2018
8934	Equisetopsida	Poaceae	<i>Aristida personata</i>	None	C	None	1	1	14/04/2008
9289	Equisetopsida	Poaceae	<i>Aristida queenslandica</i>	None	C	None	0	1	31/01/2003
11124	Equisetopsida	Poaceae	<i>Aristida queenslandica</i> var. <i>dissimilis</i>	None	C	None	2	10	22/07/2010
11123	Equisetopsida	Poaceae	<i>Aristida queenslandica</i> var. <i>queenslandica</i>	None	C	None	0	5	22/07/2010
9661	Equisetopsida	Poaceae	<i>Aristida ramosa</i>	purple wiregrass	C	None	0	1	22/07/2010
10307	Equisetopsida	Poaceae	<i>Aristida spuria</i>	None	C	None	0	1	22/07/2010
15658	Equisetopsida	Poaceae	<i>Aristida vagans</i>	None	C	None	0	5	15/02/2018
15634	Equisetopsida	Poaceae	<i>Arundinella nepalensis</i>	reedgrass	C	None	0	15	22/07/2010
9642	Equisetopsida	Poaceae	<i>Bothriochloa</i>	None	None	None	0	1	31/01/2003
15604	Equisetopsida	Poaceae	<i>Bothriochloa bladhii</i> subsp. <i>bladhii</i>	None	C	None	0	3	22/07/2010
8843	Equisetopsida	Poaceae	<i>Bothriochloa decipiens</i>	None	C	None	0	1	15/02/2018
10316	Equisetopsida	Poaceae	<i>Bothriochloa decipiens</i> var. <i>decipiens</i>	None	C	None	1	11	22/07/2010
14794	Equisetopsida	Poaceae	<i>Bromus catharticus</i>	prairie grass	None	None	1	1	11/10/2004
34710	Equisetopsida	Poaceae	<i>Calypochloa gracillima</i> subsp. <i>gracillima</i>	None	C	None	0	2	22/07/2010
14773	Equisetopsida	Poaceae	<i>Capillipedium parviflorum</i>	scented top	C	None	1	2	31/01/2003
14774	Equisetopsida	Poaceae	<i>Capillipedium spicigerum</i>	spicytop	C	None	0	3	22/07/2010
15540	Equisetopsida	Poaceae	<i>Cenchrus ciliaris</i>	None	None	None	1	1	20/02/1980
15541	Equisetopsida	Poaceae	<i>Cenchrus echinatus</i>	Mossman River grass	None	None	3	4	16/10/2005
10421	Equisetopsida	Poaceae	<i>Chionachne cyathopoda</i>	river grass	C	None	1	1	15/12/2010
20434	Equisetopsida	Poaceae	<i>Chloris</i>	None	None	None	0	2	06/12/2011
15550	Equisetopsida	Poaceae	<i>Chloris divaricata</i> var. <i>divaricata</i>	slender chloris	C	None	0	1	31/01/2003
15551	Equisetopsida	Poaceae	<i>Chloris gayana</i>	rhodes grass	None	None	0	3	15/02/2018
15552	Equisetopsida	Poaceae	<i>Chloris inflata</i>	purpletop chloris	None	None	3	7	15/02/2018

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15526	Equisetopsida	Poaceae	<i>Chloris ventricosa</i>	tall chloris	C	None	0	2	22/07/2010
15527	Equisetopsida	Poaceae	<i>Chloris virgata</i>	feathertop rhodes grass	None	None	1	2	15/12/2004
20448	Equisetopsida	Poaceae	<i>Chrysopogon</i>	None	None	None	0	1	06/12/2011
15531	Equisetopsida	Poaceae	<i>Chrysopogon fallax</i>	None	C	None	0	19	15/02/2018
11103	Equisetopsida	Poaceae	<i>Chrysopogon sylvaticus</i>	None	C	None	1	1	30/04/2003
15498	Equisetopsida	Poaceae	<i>Cleistochloa subjuncea</i>	None	C	None	1	1	29/04/1995
15483	Equisetopsida	Poaceae	<i>Cymbopogon bombycinus</i>	silky oilgrass	C	None	0	2	22/07/2010
15485	Equisetopsida	Poaceae	<i>Cymbopogon refractus</i>	barbed-wire grass	C	None	1	19	15/02/2018
15486	Equisetopsida	Poaceae	<i>Cynodon dactylon</i>	None	None	None	0	3	22/07/2010
10386	Equisetopsida	Poaceae	<i>Cynodon nlemfuensis</i> var. <i>nlemfuensis</i>	None	None	None	1	1	11/10/2004
15489	Equisetopsida	Poaceae	<i>Dactyloctenium aegyptium</i>	coast button grass	None	None	1	3	22/07/2010
9620	Equisetopsida	Poaceae	<i>Dichanthium sericeum</i>	None	C	None	0	1	06/12/2011
10364	Equisetopsida	Poaceae	<i>Digitaria</i>	None	None	None	0	1	29/04/1995
15417	Equisetopsida	Poaceae	<i>Digitaria bicornis</i>	None	C	None	1	1	14/04/2008
15419	Equisetopsida	Poaceae	<i>Digitaria brownii</i>	None	C	None	1	1	04/03/1997
15420	Equisetopsida	Poaceae	<i>Digitaria ciliaris</i>	summer grass	None	None	1	1	14/10/2004
11066	Equisetopsida	Poaceae	<i>Digitaria didactyla</i>	Queensland blue couch	None	None	0	1	31/01/2003
15423	Equisetopsida	Poaceae	<i>Digitaria diffusa</i>	None	C	None	0	18	22/07/2010
18913	Equisetopsida	Poaceae	<i>Digitaria eriantha</i>	None	None	None	0	1	22/07/2010
15426	Equisetopsida	Poaceae	<i>Digitaria parviflora</i>	None	C	None	0	2	22/07/2010
15427	Equisetopsida	Poaceae	<i>Digitaria ramularis</i>	None	C	None	1	1	14/04/2008
11065	Equisetopsida	Poaceae	<i>Digitaria violascens</i>	bastard summergrass	None	None	0	1	22/07/2010
34493	Equisetopsida	Poaceae	<i>Dinebra decipiens</i> var. <i>decipiens</i>	None	C	None	1	12	22/07/2010
34494	Equisetopsida	Poaceae	<i>Dinebra decipiens</i> var. <i>peacockii</i>	None	C	None	2	6	22/07/2010
34499	Equisetopsida	Poaceae	<i>Diplachne fusca</i> var. <i>fusca</i>	None	C	None	1	1	16/04/1997
14567	Equisetopsida	Poaceae	<i>Echinochloa colona</i>	awnless barnyard grass	None	None	3	5	01/12/2010
15435	Equisetopsida	Poaceae	<i>Echinochloa crus-galli</i>	barnyard grass	None	None	1	1	12/10/2004
11068	Equisetopsida	Poaceae	<i>Echinochloa inundata</i>	marsh millet	C	None	1	1	27/08/2020
15395	Equisetopsida	Poaceae	<i>Eleusine indica</i>	crowsfoot grass	None	None	1	1	20/02/1980
11471	Equisetopsida	Poaceae	<i>Enneapogon avenaceus</i>	None	C	None	0	1	17/04/1997
15405	Equisetopsida	Poaceae	<i>Enneapogon lindleyanus</i>	None	C	None	1	3	22/07/2010
10338	Equisetopsida	Poaceae	<i>Enneapogon robustissimus</i>	None	C	None	1	1	14/04/2008
15409	Equisetopsida	Poaceae	<i>Enteropogon unispiceus</i>	None	C	None	0	7	22/07/2010
15410	Equisetopsida	Poaceae	<i>Entolasia marginata</i>	bordered panic	C	None	1	1	29/04/1995
15411	Equisetopsida	Poaceae	<i>Entolasia stricta</i>	wiry panic	C	None	0	5	15/02/2018
10532	Equisetopsida	Poaceae	<i>Eragrostis</i>	None	None	None	0	2	15/02/2018

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15390	Equisetopsida	Poaceae	<i>Eragrostis brownii</i>	Brown's lovegrass	C	None	1	2	01/12/2010
15361	Equisetopsida	Poaceae	<i>Eragrostis elongata</i>	None	C	None	1	6	22/07/2010
15364	Equisetopsida	Poaceae	<i>Eragrostis lacunaria</i>	purple lovegrass	C	None	1	1	06/01/2004
15367	Equisetopsida	Poaceae	<i>Eragrostis leptostachya</i>	None	C	None	0	8	15/02/2018
15369	Equisetopsida	Poaceae	<i>Eragrostis minor</i>	smaller stinkgrass	None	None	1	1	20/02/1980
15371	Equisetopsida	Poaceae	<i>Eragrostis parviflora</i>	weeping lovegrass	C	None	0	3	22/07/2010
15373	Equisetopsida	Poaceae	<i>Eragrostis sororia</i>	None	C	None	0	1	31/01/2003
15374	Equisetopsida	Poaceae	<i>Eragrostis spartinoides</i>	None	C	None	0	21	22/07/2010
15378	Equisetopsida	Poaceae	<i>Eragrostis tenuifolia</i>	elastic grass	None	None	2	3	11/10/2004
15331	Equisetopsida	Poaceae	<i>Eriochloa procera</i>	slender cupgrass	C	None	1	6	22/07/2010
15332	Equisetopsida	Poaceae	<i>Eriochloa pseudoacrotricha</i>	None	C	None	1	3	22/07/2010
15320	Equisetopsida	Poaceae	<i>Heteropogon contortus</i>	black speargrass	C	None	0	36	15/02/2018
10578	Equisetopsida	Poaceae	<i>Hyparrhenia rufa</i>	None	None	None	1	11	22/07/2010
15803	Equisetopsida	Poaceae	<i>Hyparrhenia rufa</i> subsp. <i>rufa</i>	None	None	None	5	9	15/02/2018
15290	Equisetopsida	Poaceae	<i>Imperata cylindrica</i>	blady grass	C	None	1	10	06/12/2011
29093	Equisetopsida	Poaceae	<i>Megathyrsus maximus</i>	None	None	None	0	5	15/02/2018
28224	Equisetopsida	Poaceae	<i>Megathyrsus maximus</i> var. <i>coloratus</i>	None	None	None	1	2	19/04/1999
28420	Equisetopsida	Poaceae	<i>Megathyrsus maximus</i> var. <i>maximus</i>	None	None	None	1	2	17/04/1997
27900	Equisetopsida	Poaceae	<i>Megathyrsus maximus</i> var. <i>pubiglumis</i>	None	None	None	1	15	22/07/2010
15242	Equisetopsida	Poaceae	<i>Melinis minutiflora</i>	molasses grass	None	None	0	1	22/07/2010
9154	Equisetopsida	Poaceae	<i>Melinis repens</i>	red natal grass	None	None	2	23	15/02/2018
21182	Equisetopsida	Poaceae	<i>Oplismenus</i>	None	None	None	0	1	01/12/2008
15163	Equisetopsida	Poaceae	<i>Oplismenus aemulus</i>	creeping shade grass	C	None	0	11	01/12/2010
4207	Equisetopsida	Poaceae	<i>Oplismenus imbecillis</i>	None	C	None	0	1	22/07/2010
10637	Equisetopsida	Poaceae	<i>Ottochloa gracillima</i>	pademelon grass	C	None	1	8	22/07/2010
10638	Equisetopsida	Poaceae	<i>Ottochloa nodosa</i>	None	C	None	1	2	22/07/2010
10656	Equisetopsida	Poaceae	<i>Panicum</i>	None	None	None	0	1	15/02/2018
13607	Equisetopsida	Poaceae	<i>Panicum effusum</i>	None	C	None	2	10	01/12/2010
40372	Equisetopsida	Poaceae	<i>Panicum effusum</i> var. <i>hispidissimum</i>	None	C	None	0	1	15/02/2018
18424	Equisetopsida	Poaceae	<i>Panicum simile</i>	None	C	None	0	10	22/07/2010
12587	Equisetopsida	Poaceae	<i>Paspalidium</i>	None	None	None	0	3	15/02/2018
15185	Equisetopsida	Poaceae	<i>Paspalidium disjunctum</i>	None	C	None	0	2	22/07/2010
14345	Equisetopsida	Poaceae	<i>Paspalidium distans</i>	shotgrass	C	None	1	18	22/07/2010
15186	Equisetopsida	Poaceae	<i>Paspalidium gausum</i>	None	C	None	0	1	22/07/2010

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15187	Equisetopsida	Poaceae	<i>Paspalidium gracile</i>	slender panic	C	None	0	2	22/07/2010
21234	Equisetopsida	Poaceae	<i>Paspalum</i>	None	None	None	0	1	01/12/2010
15134	Equisetopsida	Poaceae	<i>Paspalum dilatatum</i>	paspalum	None	None	1	2	14/04/2008
10818	Equisetopsida	Poaceae	<i>Paspalum distichum</i>	water couch	None	None	1	1	20/02/1980
15136	Equisetopsida	Poaceae	<i>Paspalum scrobiculatum</i>	ditch millet	C	None	0	2	22/07/2010
15138	Equisetopsida	Poaceae	<i>Paspalum vaginatum</i>	saltwater couch	None	None	1	1	14/04/2008
10608	Equisetopsida	Poaceae	<i>Poa annua</i>	annual poa	None	None	1	1	11/10/2004
18061	Equisetopsida	Poaceae	<i>Poaceae</i>	None	None	None	0	1	01/12/2010
15060	Equisetopsida	Poaceae	<i>Sehima nervosum</i>	None	C	None	1	1	14/04/2008
15033	Equisetopsida	Poaceae	<i>Setaria</i>	None	None	None	0	1	06/12/2011
15032	Equisetopsida	Poaceae	<i>Setaria surgens</i>	None	C	None	0	4	22/07/2010
15048	Equisetopsida	Poaceae	<i>Sorghum</i>	None	None	None	0	1	06/12/2011
10246	Equisetopsida	Poaceae	<i>Sorghum arundinaceum</i>	Rhodesian Sudan grass	None	None	4	5	15/02/2018
15042	Equisetopsida	Poaceae	<i>Sorghum bicolor</i>	forage sorghum	None	None	1	1	15/04/2004
15043	Equisetopsida	Poaceae	<i>Sorghum halepense</i>	Johnson grass	None	None	1	2	14/10/2004
14213	Equisetopsida	Poaceae	<i>Sorghum nitidum</i>	None	C	None	0	7	01/12/2010
10792	Equisetopsida	Poaceae	<i>Sorghum nitidum forma aristatum</i>	None	C	None	3	4	15/12/2004
15041	Equisetopsida	Poaceae	<i>Sorghum x almum</i>	None	None	None	1	2	22/07/2010
22165	Equisetopsida	Poaceae	<i>Sporobolus africanus</i>	Parramatta grass	None	None	1	1	14/04/2008
15001	Equisetopsida	Poaceae	<i>Sporobolus creber</i>	None	C	None	1	1	10/05/2019
14169	Equisetopsida	Poaceae	<i>Sporobolus elongatus</i>	None	C	None	0	1	22/07/2010
10941	Equisetopsida	Poaceae	<i>Sporobolus laxus</i>	None	C	None	0	1	22/07/2010
10158	Equisetopsida	Poaceae	<i>Sporobolus natalensis</i>	None	None	None	1	1	15/12/2004
10156	Equisetopsida	Poaceae	<i>Sporobolus pyramidalis</i>	None	None	None	1	7	15/02/2018
15003	Equisetopsida	Poaceae	<i>Sporobolus virginicus</i>	sand couch	C	None	0	6	22/07/2010
14973	Equisetopsida	Poaceae	<i>Themeda quadrivalvis</i>	grader grass	None	None	2	2	14/10/2004
14974	Equisetopsida	Poaceae	<i>Themeda triandra</i>	kangaroo grass	C	None	2	25	15/02/2018
29242	Equisetopsida	Poaceae	<i>Urochloa foliosa</i>	None	C	None	1	1	15/12/2010
14999	Equisetopsida	Poaceae	<i>Urochloa mosambicensis</i>	sabi grass	None	None	0	1	22/07/2010
2359	Equisetopsida	Poaceae	<i>Urochloa mutica</i>	None	None	None	1	2	14/10/2004
18339	Equisetopsida	Poaceae	<i>Urochloa subquadrifera</i>	None	None	None	0	4	22/07/2010
33922	Equisetopsida	Polygalaceae	<i>Polygala triflora</i>	None	C	None	1	1	14/12/2010
13252	Equisetopsida	Polygonaceae	<i>Antigonon leptopus</i>	None	None	None	2	2	16/12/2004
21257	Equisetopsida	Polygonaceae	<i>Persicaria</i>	None	None	None	0	1	06/12/2011
14350	Equisetopsida	Polygonaceae	<i>Persicaria attenuata</i>	None	C	None	2	2	14/10/2004
13155	Equisetopsida	Polygonaceae	<i>Persicaria decipiens</i>	slender knotweed	C	None	1	2	11/10/2004
16271	Equisetopsida	Polygonaceae	<i>Rumex brownii</i>	swamp dock	C	None	1	1	20/02/1980
17354	Equisetopsida	Polypodiaceae	<i>Drynaria rigidula</i>	None	C	None	1	4	07/10/2019

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17355	Equisetopsida	Polypodiaceae	<i>Drynaria sparsisora</i>	None	C	None	2	7	22/07/2010
16626	Equisetopsida	Polypodiaceae	<i>Microsorium punctatum</i>	None	C	None	1	6	01/12/2008
11696	Equisetopsida	Polypodiaceae	<i>Platynerium bifurcatum</i>	None	C	None	0	1	19/04/1999
6668	Equisetopsida	Polypodiaceae	<i>Pyrrosia confluens</i>	None	C	None	0	2	19/04/1999
16314	Equisetopsida	Polypodiaceae	<i>Pyrrosia confluens</i> var. <i>confluens</i>	None	C	None	2	2	08/08/1989
16317	Equisetopsida	Polypodiaceae	<i>Pyrrosia rupestris</i>	rock felt fern	C	None	0	2	19/04/1999
17370	Equisetopsida	Pontederiaceae	<i>Eichhornia crassipes</i>	water hyacinth	None	None	2	2	14/10/2004
16359	Equisetopsida	Portulacaceae	<i>Portulaca oleracea</i>	pigweed	None	None	0	1	31/01/2003
19434	Equisetopsida	Portulacaceae	<i>Portulaca pilosa</i>	None	None	None	1	3	22/07/2010
13099	Equisetopsida	Potamogetonaceae	<i>Potamogeton crispus</i>	curly pondweed	C	None	1	1	14/10/2004
31010	Equisetopsida	Potamogetonaceae	<i>Potamogeton octandrus</i>	None	C	None	1	1	14/10/2004
34205	Equisetopsida	Potamogetonaceae	<i>Stuckenia pectinata</i>	None	C	None	1	1	31/05/1992
17047	Equisetopsida	Proteaceae	<i>Grevillea</i>	None	None	None	0	1	31/01/2003
17033	Equisetopsida	Proteaceae	<i>Grevillea helmsiae</i>	None	C	None	4	5	09/04/2013
18110	Equisetopsida	Pteridaceae	<i>Acrostichum speciosum</i>	mangrove fern	C	None	1	1	15/04/1990
18116	Equisetopsida	Pteridaceae	<i>Adiantum aethiopicum</i>	None	C	None	0	5	22/07/2010
21888	Equisetopsida	Pteridaceae	<i>Adiantum atroviride</i>	None	C	None	1	2	01/12/2008
18031	Equisetopsida	Pteridaceae	<i>Adiantum hispidulum</i>	None	C	None	0	8	19/04/1999
9284	Equisetopsida	Pteridaceae	<i>Adiantum hispidulum</i> var. <i>hispidulum</i>	None	C	None	2	5	22/07/2010
9285	Equisetopsida	Pteridaceae	<i>Adiantum hispidulum</i> var. <i>hypoglaucum</i>	None	C	None	1	1	24/07/2003
17679	Equisetopsida	Pteridaceae	<i>Cheilanthes distans</i>	bristly cloak fern	C	None	0	1	22/07/2010
8258	Equisetopsida	Pteridaceae	<i>Cheilanthes nudiuscula</i>	None	C	None	3	4	12/11/2012
8916	Equisetopsida	Pteridaceae	<i>Cheilanthes sieberi</i>	None	C	None	0	5	22/07/2010
17682	Equisetopsida	Pteridaceae	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	None	C	None	1	1	25/06/1988
17396	Equisetopsida	Pteridaceae	<i>Doryopteris concolor</i>	None	C	None	0	4	22/07/2010
9723	Equisetopsida	Pteridaceae	<i>Pellaea falcata</i>	None	C	None	0	5	19/04/1999
21889	Equisetopsida	Pteridaceae	<i>Pellaea nana</i>	None	C	None	1	5	22/07/2010
24905	Equisetopsida	Ptychomitriaceae	<i>Ptychomitrium australe</i>	None	C	None	1	1	22/09/2008
9557	Equisetopsida	Putranjivaceae	<i>Drypetes deplanchei</i>	grey boxwood	C	None	0	32	15/02/2018
17622	Equisetopsida	Ranunculaceae	<i>Clematis glycinoides</i>	None	C	None	0	1	19/04/1999
9659	Equisetopsida	Rhamnaceae	<i>Alphitonia excelsa</i>	soap tree	C	None	0	51	15/02/2018
13094	Equisetopsida	Rhamnaceae	<i>Pomaderris</i>	None	None	None	1	1	29/04/1995
13141	Equisetopsida	Rhamnaceae	<i>Pomaderris canescens</i>	None	C	None	2	2	29/08/1999
33130	Equisetopsida	Rhamnaceae	<i>Pomaderris</i> sp. (Mt Larcom J.Brushe JB259)	None	C	None	4	4	03/10/2012
16278	Equisetopsida	Rhamnaceae	<i>Rhamnella vitiensis</i>	None	C	None	1	4	12/11/2011

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15949	Equisetopsida	Rhamnaceae	<i>Ventilago pubiflora</i>	None	C	None	3	9	27/04/1999
17815	Equisetopsida	Rhizophoraceae	<i>Bruguiera gymnorhiza</i>	large-fruited orange mangrove	C	None	0	1	01/02/1993
4134	Equisetopsida	Rhizophoraceae	<i>Ceriops australis</i>	None	C	None	1	1	26/01/2005
13272	Equisetopsida	Rhizophoraceae	<i>Ceriops tagal</i>	yellow mangrove	C	None	0	1	01/02/1993
16284	Equisetopsida	Rhizophoraceae	<i>Rhizophora stylosa</i>	spotted mangrove	C	None	1	2	09/02/2006
12848	Equisetopsida	Ripogonaceae	<i>Ripogonum brevifolium</i>	small-leaved supplejack	C	None	0	3	19/04/1999
14109	Equisetopsida	Rosaceae	<i>Eriobotrya japonica</i>	loquat	None	None	1	2	16/12/2004
6242	Equisetopsida	Rosaceae	<i>Rubus probus</i>	None	C	None	1	1	17/04/1997
5679	Equisetopsida	Rosaceae	<i>Rubus x novus</i>	None	C	None	1	1	17/07/2006
18045	Equisetopsida	Rubiaceae	<i>Aidia racemosa</i>	None	C	None	8	20	23/02/2014
12298	Equisetopsida	Rubiaceae	<i>Coelospermum paniculatum</i> var. <i>paniculatum</i>	None	C	None	0	1	06/12/2011
5565	Equisetopsida	Rubiaceae	<i>Coelospermum reticulatum</i>	None	C	None	3	36	15/02/2018
27436	Equisetopsida	Rubiaceae	<i>Cyclophyllum coprosmoides</i>	None	C	None	0	9	22/07/2010
27437	Equisetopsida	Rubiaceae	<i>Cyclophyllum coprosmoides</i> var. <i>coprosmoides</i>	None	C	None	0	1	15/02/2018
27438	Equisetopsida	Rubiaceae	<i>Cyclophyllum coprosmoides</i> var. <i>spathulatum</i>	None	C	None	1	1	19/08/1983
34578	Equisetopsida	Rubiaceae	<i>Gynochthodes canthoides</i>	None	C	None	0	3	22/07/2010
14503	Equisetopsida	Rubiaceae	<i>Hodgkinsonia ovatiflora</i>	golden ash	C	None	0	2	19/04/1999
12270	Equisetopsida	Rubiaceae	<i>Ixora beckleri</i>	brown coffeewood	C	None	0	2	19/04/1999
12272	Equisetopsida	Rubiaceae	<i>Ixora queenslandica</i>	None	C	None	0	3	19/04/1999
12274	Equisetopsida	Rubiaceae	<i>Knoxia sumatrensis</i>	None	C	None	3	3	12/03/1994
16640	Equisetopsida	Rubiaceae	<i>Mitracarpus hirtus</i>	None	None	None	1	1	11/10/2004
7598	Equisetopsida	Rubiaceae	<i>Pavetta australiensis</i>	None	C	None	0	3	19/04/1999
16538	Equisetopsida	Rubiaceae	<i>Pavetta australiensis</i> var. <i>australiensis</i>	None	C	None	3	3	23/02/2014
16407	Equisetopsida	Rubiaceae	<i>Pomax umbellata</i>	None	C	None	2	3	29/04/1995
16339	Equisetopsida	Rubiaceae	<i>Psychotria</i>	None	None	None	0	1	19/04/1999
16334	Equisetopsida	Rubiaceae	<i>Psychotria daphnoides</i>	None	C	None	1	8	31/01/2003
14293	Equisetopsida	Rubiaceae	<i>Psychotria loniceroides</i>	hairy psychotria	C	None	0	1	16/09/1994
29251	Equisetopsida	Rubiaceae	<i>Psydrax</i>	None	None	None	1	1	14/09/1994
29828	Equisetopsida	Rubiaceae	<i>Psydrax lamprophylla</i> forma <i>lamprophylla</i>	None	C	None	0	1	22/07/2010
2399	Equisetopsida	Rubiaceae	<i>Psydrax odorata</i>	None	C	None	0	16	15/02/2018
29841	Equisetopsida	Rubiaceae	<i>Psydrax odorata</i> forma <i>australiana</i>	None	C	None	0	8	22/07/2010

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29826	Equisetopsida	Rubiaceae	<i>Psydrax odorata forma buxifolia</i>	None	C	None	0	6	19/04/1999
29840	Equisetopsida	Rubiaceae	<i>Psydrax odorata subsp. australiana</i>	None	C	None	2	2	15/01/1988
29823	Equisetopsida	Rubiaceae	<i>Psydrax oleifolia</i>	None	C	None	0	2	22/07/2010
16300	Equisetopsida	Rubiaceae	<i>Richardia brasiliensis</i>	white eye	None	None	2	3	22/07/2010
41463	Equisetopsida	Rubiaceae	<i>Scleromitron subulatum</i>	None	C	None	2	2	14/04/1989
16140	Equisetopsida	Rubiaceae	<i>Spermacoce</i>	None	None	None	0	1	27/10/1998
16135	Equisetopsida	Rubiaceae	<i>Spermacoce brachystema</i>	None	C	None	1	2	11/10/2004
16139	Equisetopsida	Rubiaceae	<i>Spermacoce multicaulis</i>	None	C	None	2	13	22/07/2010
20039	Equisetopsida	Rubiaceae	<i>Timonius timon</i>	None	C	None	0	1	22/07/2010
30694	Equisetopsida	Rubiaceae	<i>Triflorensia cameronii</i>	None	C	None	0	2	22/07/2010
30510	Equisetopsida	Rubiaceae	<i>Triflorensia ixoroides</i>	None	C	None	0	7	22/07/2010
15873	Equisetopsida	Rutaceae	<i>Acronychia</i>	None	None	None	0	1	19/06/1983
15871	Equisetopsida	Rutaceae	<i>Acronychia laevis</i>	glossy acronychia	C	None	0	11	22/07/2010
15872	Equisetopsida	Rutaceae	<i>Acronychia pauciflora</i>	soft acronychia	C	None	3	7	05/04/2000
11989	Equisetopsida	Rutaceae	<i>Bosistoa medicinalis</i>	None	C	None	13	19	17/08/2000
11988	Equisetopsida	Rutaceae	<i>Bosistoa transversa</i>	three-leaved bosistoa	C	V	11	12	13/10/2008
11990	Equisetopsida	Rutaceae	<i>Bouchardatia neurococca</i>	union nut	C	None	1	2	01/12/2008
27796	Equisetopsida	Rutaceae	<i>Coatesia paniculata</i>	None	C	None	2	9	16/10/2012
18946	Equisetopsida	Rutaceae	<i>Dinosperma erythrococcum</i>	None	C	None	1	4	22/07/2010
18945	Equisetopsida	Rutaceae	<i>Dinosperma melanophlium</i>	None	C	None	4	7	19/04/1999
11300	Equisetopsida	Rutaceae	<i>Flindersia australis</i>	crow's ash	C	None	1	11	22/07/2010
17125	Equisetopsida	Rutaceae	<i>Flindersia schottiana</i>	bumpy ash	C	None	0	1	17/04/1997
17085	Equisetopsida	Rutaceae	<i>Geijera parviflora</i>	wilga	C	None	0	1	01/12/2010
11430	Equisetopsida	Rutaceae	<i>Geijera salicifolia</i>	brush wilga	C	None	3	21	15/02/2018
9465	Equisetopsida	Rutaceae	<i>Medicosma</i>	None	None	None	0	1	22/07/2010
16677	Equisetopsida	Rutaceae	<i>Micromelum minutum</i>	clusterberry	C	None	3	13	09/04/2013
16600	Equisetopsida	Rutaceae	<i>Murraja ovatifoliolata</i>	None	C	None	2	8	22/07/2010
21837	Equisetopsida	Rutaceae	<i>Murraja paniculata 'Exotica'</i>	None	None	None	0	17	31/01/2003
16239	Equisetopsida	Rutaceae	<i>Sarcomelicope simplicifolia subsp. simplicifolia</i>	yellow aspen	C	None	0	2	19/04/1999
15899	Equisetopsida	Rutaceae	<i>Zanthoxylum brachyacanthum</i>	None	C	None	0	3	19/04/1999
15908	Equisetopsida	Rutaceae	<i>Zieria</i>	None	None	None	1	1	29/04/1995
28656	Equisetopsida	Rutaceae	<i>Zieria actites</i>	Mt Larcom stink bush	CR	None	6	6	19/06/2011
16914	Equisetopsida	Salicaceae	<i>Homalium alnifolium</i>	homalium	C	None	1	11	22/07/2010
16182	Equisetopsida	Salicaceae	<i>Scolopia braunii</i>	flintwood	C	None	1	2	14/12/2010
11250	Equisetopsida	Salicaceae	<i>Xylosma terrae-reginae</i>	xylosma	C	None	3	8	22/07/2010
16276	Equisetopsida	Salviniaceae	<i>Salvinia molesta</i>	salvinia	None	None	1	1	14/10/2004

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17181	Equisetopsida	Santalaceae	<i>Exocarpos latifolius</i>	None	C	None	1	20	09/04/2013
18052	Equisetopsida	Sapindaceae	<i>Alectryon connatus</i>	grey birds-eye	C	None	0	11	22/07/2010
18054	Equisetopsida	Sapindaceae	<i>Alectryon diversifolius</i>	scrub boonaree	C	None	3	14	22/07/2010
18007	Equisetopsida	Sapindaceae	<i>Alectryon subcinereus</i>	None	C	None	0	1	22/07/2010
9489	Equisetopsida	Sapindaceae	<i>Alectryon subdentatus</i>	None	C	None	2	10	19/04/1999
19727	Equisetopsida	Sapindaceae	<i>Alectryon tomentosus</i>	None	C	None	2	8	22/07/2010
17930	Equisetopsida	Sapindaceae	<i>Arytera divaricata</i>	coogera	C	None	1	8	15/02/2018
13714	Equisetopsida	Sapindaceae	<i>Atalaya</i>	None	None	None	0	1	01/12/2010
13712	Equisetopsida	Sapindaceae	<i>Atalaya calcicola</i>	None	C	None	3	7	20/03/2012
9091	Equisetopsida	Sapindaceae	<i>Atalaya collina</i>	None	E	E	11	12	22/10/1992
13711	Equisetopsida	Sapindaceae	<i>Atalaya multiflora</i>	broad-leaved whitewood	C	None	1	5	09/03/2003
14042	Equisetopsida	Sapindaceae	<i>Atalaya rigida</i>	None	C	None	14	17	10/09/2009
17907	Equisetopsida	Sapindaceae	<i>Atalaya salicifolia</i>	None	C	None	6	18	22/07/2010
13960	Equisetopsida	Sapindaceae	<i>Cupaniopsis</i>	None	None	None	1	3	22/07/2010
17548	Equisetopsida	Sapindaceae	<i>Cupaniopsis anacardioides</i>	tuckeroo	C	None	0	21	15/02/2018
14648	Equisetopsida	Sapindaceae	<i>Cupaniopsis shirleyana</i>	wedge-leaf tuckeroo	V	V	1	3	01/12/2008
33389	Equisetopsida	Sapindaceae	<i>Cupaniopsis</i> sp. (<i>Watalgan A.R.Bean 8611</i>)	None	C	None	14	14	16/12/2012
13638	Equisetopsida	Sapindaceae	<i>Cupaniopsis wadsworthii</i>	None	C	None	2	22	09/04/2013
14612	Equisetopsida	Sapindaceae	<i>Dodonaea</i>	None	None	None	0	7	01/12/2010
13649	Equisetopsida	Sapindaceae	<i>Dodonaea lanceolata</i>	None	C	None	0	6	22/07/2010
17376	Equisetopsida	Sapindaceae	<i>Dodonaea lanceolata</i> var. <i>subsessilifolia</i>	None	C	None	0	1	15/02/2018
13650	Equisetopsida	Sapindaceae	<i>Dodonaea tenuifolia</i>	None	C	None	1	1	04/03/1997
17391	Equisetopsida	Sapindaceae	<i>Dodonaea viscosa</i>	None	C	None	0	1	10/09/1994
17387	Equisetopsida	Sapindaceae	<i>Dodonaea viscosa</i> subsp. <i>burmanniana</i>	None	C	None	0	1	22/07/2010
13662	Equisetopsida	Sapindaceae	<i>Elattostachys nervosa</i>	green tamarind	C	None	0	1	22/07/2010
17339	Equisetopsida	Sapindaceae	<i>Elattostachys xylocarpa</i>	white tamarind	C	None	2	15	22/07/2010
16968	Equisetopsida	Sapindaceae	<i>Harpullia hillii</i>	None	C	None	0	6	22/07/2010
16969	Equisetopsida	Sapindaceae	<i>Harpullia pendula</i>	None	C	None	0	2	22/07/2010
16885	Equisetopsida	Sapindaceae	<i>Jagera pseudorhus</i>	None	C	None	0	16	22/07/2010
6019	Equisetopsida	Sapindaceae	<i>Jagera pseudorhus</i> var. <i>pseudorhus</i>	None	C	None	2	3	07/05/2019
8959	Equisetopsida	Sapindaceae	<i>Rhysotoechia bifoliolata</i> subsp. <i>bifoliolata</i>	None	C	None	1	1	20/10/1988
16415	Equisetopsida	Sapotaceae	<i>Planchonella cotinifolia</i> var. <i>pubescens</i>	None	C	None	0	16	22/07/2010
13125	Equisetopsida	Sapotaceae	<i>Planchonella pohlmaniana</i>	None	C	None	1	9	22/07/2010
34941	Equisetopsida	Sapotaceae	<i>Pleioluma queenslandica</i>	None	C	None	1	2	04/09/1998
32249	Equisetopsida	Sapotaceae	<i>Sersalisia sericea</i>	None	C	None	1	11	22/07/2010
16205	Equisetopsida	Schizaeaceae	<i>Schizaea bifida</i>	forked comb fern	C	None	2	3	04/09/1998

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8631	Equisetopsida	Scrophulariaceae	<i>Eremophila debilis</i>	winter apple	C	None	0	11	22/07/2010
34086	Equisetopsida	Scrophulariaceae	<i>Eremophila</i> sp. (Toomba Range J. Silcock JLS179)	None	C	None	0	1	06/12/2011
16602	Equisetopsida	Scrophulariaceae	<i>Myoporum acuminatum</i>	coastal boobialla	C	None	0	4	15/02/2018
8586	Equisetopsida	Scrophulariaceae	<i>Myoporum boninense</i> subsp. <i>australe</i>	None	C	None	1	1	30/04/1962
18047	Equisetopsida	Simaroubaceae	<i>Ailanthus triphysa</i>	white siris	C	None	0	2	22/07/2010
33391	Equisetopsida	Simaroubaceae	<i>Samadera bidwillii</i>	None	V	V	4	4	18/05/2021
15881	Equisetopsida	Smilacaceae	<i>Smilax australis</i>	barbed-wire vine	C	None	0	16	22/07/2010
15882	Equisetopsida	Smilacaceae	<i>Smilax glycyphylla</i>	sweet sarsaparilla	C	None	1	2	17/04/1997
20368	Equisetopsida	Solanaceae	<i>Capsicum</i>	None	None	None	0	1	02/08/1996
13673	Equisetopsida	Solanaceae	<i>Capsicum frutescens</i>	None	None	None	0	2	22/07/2010
17493	Equisetopsida	Solanaceae	<i>Datura ferox</i>	fierce thornapple	None	None	1	1	20/02/1980
17496	Equisetopsida	Solanaceae	<i>Datura stramonium</i>	common thornapple	None	None	0	1	31/01/2003
27897	Equisetopsida	Solanaceae	<i>Lycianthes shanesii</i>	None	C	None	1	1	02/03/1997
14376	Equisetopsida	Solanaceae	<i>Nicotiana glauca</i>	tree tobacco	None	None	1	1	31/03/2004
13555	Equisetopsida	Solanaceae	<i>Physalis angulata</i>	None	None	None	2	2	16/12/2004
13557	Equisetopsida	Solanaceae	<i>Physalis peruviana</i>	None	None	None	1	6	22/07/2010
16129	Equisetopsida	Solanaceae	<i>Solanum</i>	None	None	None	0	1	17/04/1997
16157	Equisetopsida	Solanaceae	<i>Solanum americanum</i>	None	None	None	4	5	16/12/2004
16165	Equisetopsida	Solanaceae	<i>Solanum ellipticum</i>	potato bush	C	None	0	4	22/07/2010
16167	Equisetopsida	Solanaceae	<i>Solanum furfuraceum</i>	None	C	None	0	3	22/07/2010
13788	Equisetopsida	Solanaceae	<i>Solanum nigrum</i>	None	None	None	0	12	06/12/2011
16120	Equisetopsida	Solanaceae	<i>Solanum seaforthianum</i>	Brazilian nightshade	None	None	1	20	01/12/2010
16124	Equisetopsida	Solanaceae	<i>Solanum stelligerum</i>	devil's needles	C	None	1	6	19/04/1999
16126	Equisetopsida	Solanaceae	<i>Solanum torvum</i>	devil's fig	None	None	5	7	22/07/2010
6183	Equisetopsida	Sparrmanniaceae	<i>Corchorus reynoldsiae</i>	None	C	None	2	2	17/04/1997
17603	Equisetopsida	Sparrmanniaceae	<i>Corchorus trilocularis</i>	None	C	None	1	1	28/02/1997
16994	Equisetopsida	Sparrmanniaceae	<i>Grewia</i>	None	None	None	0	1	19/04/1999
17049	Equisetopsida	Sparrmanniaceae	<i>Grewia latifolia</i>	dysentery plant	C	None	2	26	15/02/2018
40981	Equisetopsida	Sparrmanniaceae	<i>Grewia savannicola</i>	None	C	None	0	1	01/12/2010
15982	Equisetopsida	Sparrmanniaceae	<i>Triumfetta repens</i>	None	C	None	0	1	16/09/1994
15983	Equisetopsida	Sparrmanniaceae	<i>Triumfetta rhomboidea</i>	chinese burr	None	None	1	10	01/12/2010

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
16091	Equisetopsida	Stackhousiaceae	<i>Stackhousia monogyna</i>	creamy candles	C	None	1	2	27/10/1998
9660	Equisetopsida	Sterculiaceae	<i>Argyrodendron trifoliolatum</i>	booyong	C	None	0	1	19/04/1999
12650	Equisetopsida	Sterculiaceae	<i>Brachychiton</i>	None	None	None	0	1	01/12/2008
17796	Equisetopsida	Sterculiaceae	<i>Brachychiton australis</i>	broad-leaved bottle tree	C	None	0	13	22/07/2010
17797	Equisetopsida	Sterculiaceae	<i>Brachychiton bidwillii</i>	little kurrajong	C	None	0	1	02/08/1996
16103	Equisetopsida	Sterculiaceae	<i>Sterculia quadrifida</i>	peanut tree	C	None	0	17	22/07/2010
29868	Equisetopsida	Strelitziaceae	<i>Strelitzia</i>	None	None	None	1	1	14/10/2004
9327	Equisetopsida	Symplocaceae	<i>Symplocos stawellii</i>	None	C	None	1	2	22/07/2010
17927	Equisetopsida	Tectariaceae	<i>Arthropteris tenella</i>	climbing fern	C	None	1	2	01/12/2008
15926	Equisetopsida	Thymelaeaceae	<i>Wikstroemia indica</i>	tie bush	C	None	0	1	19/04/1999
12527	Equisetopsida	Typhaceae	<i>Typha domingensis</i>	None	C	None	1	3	06/12/2011
15989	Equisetopsida	Typhaceae	<i>Typha orientalis</i>	broad-leaved cumbungi	C	None	1	2	16/12/2004
17955	Equisetopsida	Ulmaceae	<i>Aphananthe philippinensis</i>	None	C	None	0	3	19/04/1999
17667	Equisetopsida	Ulmaceae	<i>Celtis paniculata</i>	native celtis	C	None	0	7	22/07/2010
16011	Equisetopsida	Ulmaceae	<i>Trema tomentosa</i>	None	C	None	1	8	22/07/2010
14635	Equisetopsida	Urticaceae	<i>Dendrocnide photiniphylla</i>	shiny-leaved stinging tree	C	None	0	7	22/07/2010
20953	Equisetopsida	Verbenaceae	<i>Lantana</i>	None	None	None	0	1	19/04/1999
19905	Equisetopsida	Verbenaceae	<i>Lantana camara</i>	lantana	None	None	3	37	15/02/2018
13853	Equisetopsida	Verbenaceae	<i>Lantana montevidensis</i>	creeping lantana	None	None	4	11	15/02/2018
7796	Equisetopsida	Verbenaceae	<i>Phyla canescens</i>	None	None	None	1	1	07/12/2007
16143	Equisetopsida	Verbenaceae	<i>Stachytarpheta jamaicensis</i>	Jamaica snakeweed	None	None	4	12	06/12/2011
12351	Equisetopsida	Verbenaceae	<i>Verbena</i>	None	None	None	1	1	04/03/1997
15951	Equisetopsida	Verbenaceae	<i>Verbena bonariensis</i>	purpletop	None	None	0	1	31/01/2003
27944	Equisetopsida	Verbenaceae	<i>Verbena litoralis</i> var. <i>litoralis</i>	None	None	None	3	3	14/10/2004
41612	Equisetopsida	Violaceae	<i>Pigea enneasperma</i>	None	C	None	1	1	16/01/2011
41630	Equisetopsida	Violaceae	<i>Pigea stellarioides</i>	None	C	None	1	8	15/02/2018
18917	Equisetopsida	Violaceae	<i>Viola hederacea</i>	None	C	None	0	1	16/09/1994
15958	Equisetopsida	Violaceae	<i>Viola hederacea</i> subsp. <i>hederacea</i>	None	C	None	0	1	06/12/2011
14132	Equisetopsida	Viscaceae	<i>Notothixos incanus</i>	None	C	None	1	1	31/05/1992
41432	Equisetopsida	Vitaceae	<i>Causonis clematidea</i>	None	C	None	0	1	16/04/1999
17660	Equisetopsida	Vitaceae	<i>Cayratia acris</i>	hairy grape	C	None	1	13	22/07/2010
17646	Equisetopsida	Vitaceae	<i>Cissus hastata</i>	None	C	None	1	1	23/02/2014
17648	Equisetopsida	Vitaceae	<i>Cissus oblonga</i>	None	C	None	2	29	22/07/2010
12458	Equisetopsida	Vitaceae	<i>Cissus reniformis</i>	None	C	None	0	1	19/04/1999
17651	Equisetopsida	Vitaceae	<i>Cissus repens</i>	None	C	None	0	2	22/07/2010
31727	Equisetopsida	Vitaceae	<i>Clematicissus opaca</i>	None	C	None	0	17	22/07/2010
14151	Equisetopsida	Vitaceae	<i>Tetrastigma nitens</i>	shining grape	C	None	1	9	22/07/2010

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
15935	Equisetopsida	Xanthorrhoeaceae	<i>Xanthorrhoea</i>	None	None	None	0	5	01/12/2008
15934	Equisetopsida	Xanthorrhoeaceae	<i>Xanthorrhoea johnsonii</i>	None	C	None	0	5	15/02/2018
20072	Equisetopsida	Xanthorrhoeaceae	<i>Xanthorrhoea latifolia</i>	None	C	None	0	1	22/07/2010
9156	Equisetopsida	Xanthorrhoeaceae	<i>Xanthorrhoea latifolia</i> <i>subsp. latifolia</i>	None	C	None	1	5	19/04/1999
12011	Equisetopsida	Zamiaceae	<i>Macrozamia</i>	None	None	None	0	1	01/12/2008
16707	Equisetopsida	Zamiaceae	<i>Macrozamia miquelii</i>	None	C	None	7	14	15/02/2018
14130	Equisetopsida	Zosteraceae	<i>Zostera capricorni</i>	eelgrass	C	None	0	1	01/02/1993

Table 4. Fungi recorded within the area of interest and its one kilometre buffer

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
25637	Agaricomycetes	Agaricaceae	<i>Chlorophyllum molybdites</i>	green-spored parasol	C	None	1	1	28/02/1989
28576	Agaricomycetes	Meripilaceae	<i>Antrodia</i>	None	None	None	1	1	16/05/1993
28229	Agaricomycetes	Polyporaceae	<i>Loweoporus tephroporus</i>	None	C	None	1	1	11/08/1989
23010	Eurotiomycetes	Sphinctrinaceae	<i>Chaenothecopsis</i>	None	None	None	1	1	31/01/1975
23098	Lecanoromycetes	Caliciaceae	<i>Dirinaria confluens</i>	None	C	None	4	4	24/06/2004
24499	Lecanoromycetes	Caliciaceae	<i>Dirinaria flava</i>	None	C	None	1	1	24/06/2004
23100	Lecanoromycetes	Caliciaceae	<i>Dirinaria picta</i>	None	C	None	1	1	10/06/1975
25242	Lecanoromycetes	Caliciaceae	<i>Pyxine australiensis</i>	None	C	None	1	1	24/06/2004
23075	Lecanoromycetes	Coccocarpiaceae	<i>Coccocarpia palmicola</i>	None	C	None	2	2	10/06/1975
23198	Lecanoromycetes	Haematommataceae	<i>Haematomma</i>	None	None	None	1	1	09/06/1975
24556	Lecanoromycetes	Haematommataceae	<i>Haematomma africanum</i>	None	C	None	3	3	10/06/1975
23150	Lecanoromycetes	Haematommataceae	<i>Haematomma collatum</i>	None	C	None	1	1	09/06/1975
23189	Lecanoromycetes	Lecanoraceae	<i>Lecanora achroa</i>	None	C	None	1	1	10/06/1975
24235	Lecanoromycetes	Megalosporaceae	<i>Megalospora queenslandica</i>	None	C	None	1	1	10/06/1975
23384	Lecanoromycetes	Parmeliaceae	<i>Parmotrema</i>	None	None	None	1	1	24/06/2004
23379	Lecanoromycetes	Parmeliaceae	<i>Parmotrema robustum</i>	None	C	None	1	1	09/06/1975
29480	Lecanoromycetes	Parmeliaceae	<i>Usnea dasaea</i>	None	C	None	1	1	04/03/1980
24065	Lecanoromycetes	Parmeliaceae	<i>Usnea nidifica</i>	None	C	None	3	3	31/12/1977

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
23170	Lecanoromycetes	Physciaceae	<i>Heterodermia obscurata</i>	None	C	None	1	1	10/06/1975
23568	Lecanoromycetes	Ramalinaceae	<i>Ramalina confirmata</i>	None	C	None	9	9	05/03/1980
29585	Lecanoromycetes	Ramalinaceae	<i>Ramalina inflata</i> subsp. <i>inflata</i>	None	C	None	1	1	24/06/2004
23553	Lecanoromycetes	Ramalinaceae	<i>Ramalina inflata</i> subsp. <i>perpusilla</i>	None	C	None	3	3	31/12/1975
29460	Lecanoromycetes	Ramalinaceae	<i>Ramalina luciae</i>	None	C	None	5	5	04/03/1980
23555	Lecanoromycetes	Ramalinaceae	<i>Ramalina nervulosa</i>	None	C	None	7	7	04/03/1980
23559	Lecanoromycetes	Ramalinaceae	<i>Ramalina pacifica</i>	None	C	None	5	5	06/03/1980
23560	Lecanoromycetes	Ramalinaceae	<i>Ramalina peruviana</i>	None	C	None	3	3	04/03/1980
23564	Lecanoromycetes	Ramalinaceae	<i>Ramalina subfraxinea</i> var. <i>norstictica</i>	None	C	None	6	6	05/03/1980
23565	Lecanoromycetes	Ramalinaceae	<i>Ramalina tenella</i>	None	C	None	1	1	04/03/1980
23764	Lecanoromycetes	Teloschistaceae	<i>Teloschistes flavicans</i>	None	C	None	1	1	10/06/1975
23769	Lecanoromycetes	Tephromelataceae	<i>Tephromela atra</i>	None	C	None	1	1	10/06/1975

Table 5. Other species recorded within the area of interest and its one kilometre buffer

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
7857	Phaeophyceae	Mesosporaceae	<i>Mesospora schmidtii</i>	None	C	None	1	1	30/05/1974
6990	Phaeophyceae	Sporochneaceae	<i>Sporochneus comosus</i>	None	C	None	1	1	30/05/1974

Species table headings and codes

Taxon Id: Unique identifier of the taxon from the WildNet database.

NCA: Queensland conservation status of the taxon under the *Nature Conservation Act 1992* (Least Concern (C), Critically Endangered (CR), Endangered (E), Extinct (EX), Near Threatened (NT), Extinct in the Wild (PE), Special Least Concern (SL), and Vulnerable (V)).

EPBC: Australian conservation status of the taxon under the *Environment Protection and Biodiversity Conservation Act 1999* (Conservation Dependent (CD), Critically Endangered (CE), Endangered (E), Extinct (EX), Vulnerable (V), and Extinct in the Wild (XW)).

Specimens: The number of specimen-backed records of the taxon.

Records: The total number of records of the taxon.

Last record: Date of latest record of the taxon.

Links and Support

Other sites that deliver species information from the [WildNet database](#) include:

- [Species profile search](#) - access species information approved for publication including species names, statuses, notes, images, distribution maps and records

- [Species lists](#) - generate species lists for Queensland protected areas, forestry areas, local governments and areas defined using coordinates
- [Biomaps](#) - view biodiversity information, including WildNet records approved for publication, and generate reports
- [Queensland Globe](#) - view spatial information, including WildNet records approved for publication
- [Qld wildlife data API](#) - access WildNet species information approved for publication such as notes, images and records etc.
- [WetlandMaps](#) - view species records, survey locations etc. approved for publication
- [WetlandSummary](#) - view wildlife statistics, species lists for a range of area types, and access WildNet species profiles
- [WildNet wildlife records - published - Queensland](#) - spatial layer of WildNet records approved for publication generated weekly
- [Generalised distribution and densities of Queensland wildlife](#) - Queensland species distributions and densities generalised to a 10 km grid resolution
- [Conservation status of Queensland wildlife](#) - access current lists of priority species for Queensland including nomenclature and status information
- [Queensland Confidential Species](#) - the list of species flagged as confidential in the WildNet database.

Please direct queries about this report to the [WildNet Team](#).

Other useful sites for accessing Queensland biodiversity data include:

- [Useful wildlife resources](#)
- [Queensland Government Data](#)
- [Atlas of Living Australia \(ALA\)](#)
- [Online Zoological Collections of Australian Museums \(OZCAM\)](#)
- [Australia's Virtual Herbarium \(AVH\)](#)
- [Protected Matters Search Tool](#)

Disclaimer

Whilst every care is taken to ensure the accuracy of the information provided in this report, the Queensland Government, to the maximum extent permitted by law, makes no representations or warranties about its accuracy, reliability, completeness, or suitability, for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which the user may incur as a consequence of the information being inaccurate or incomplete in any way and for any reason.





EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 11-Mar-2022

[Summary](#)

[Details](#)

[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

Summary

Matters of National Environment Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

World Heritage Properties:	1
National Heritage Places:	1
Wetlands of International Importance (Ramsar)	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	7
Listed Threatened Species:	60
Listed Migratory Species:	46

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Lands:	6
Commonwealth Heritage Places:	1
Listed Marine Species:	87
Whales and Other Cetaceans:	10
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have

State and Territory Reserves:	9
Regional Forest Agreements:	None
Nationally Important Wetlands:	2
EPBC Act Referrals:	42
Key Ecological Features (Marine):	None
Biologically Important Areas:	4
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

World Heritage Properties [\[Resource Information \]](#)

Name	State	Legal Status
Great Barrier Reef	QLD	Declared property

National Heritage Places [\[Resource Information \]](#)

Name	State	Legal Status
Natural		
Great Barrier Reef	QLD	Listed place

Listed Threatened Ecological Communities [\[Resource Information \]](#)

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text
Brigalow (Acacia harpophylla dominant and co-dominant)	Endangered	Community known to occur within area
Coastal Swamp Oak (Casuarina glauca) Forest of New South Wales and South East Queensland ecological community	Endangered	Community may occur within area
Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions	Endangered	Community may occur within area
Lowland Rainforest of Subtropical Australia	Critically Endangered	Community likely to occur within area
Poplar Box Grassy Woodland on Alluvial Plains	Endangered	Community likely to occur within area
Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions	Endangered	Community likely to occur within area
Weeping Myall Woodlands	Endangered	Community likely to occur within area

Listed Threatened Species [\[Resource Information \]](#)

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.

Number is the current name ID.

Scientific Name	Threatened Category	Presence Text
BIRD		

Scientific Name	Threatened Category	Presence Text
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat may occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area
Cyclopsitta diophthalma coxeni Coxen's Fig-Parrot [59714]	Endangered	Species or species habitat may occur within area
Epthianura crocea macgregori Capricorn Yellow Chat, Yellow Chat (Dawson) [67090]	Critically Endangered	Species or species habitat known to occur within area
Erythrotriorchis radiatus Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area
Fregetta grallaria grallaria White-bellied Storm-Petrel (Tasman Sea), White-bellied Storm-Petrel (Australasian) [64438]	Vulnerable	Species or species habitat likely to occur within area
Geophaps scripta scripta Squatter Pigeon (southern) [64440]	Vulnerable	Species or species habitat known to occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area

Scientific Name	Threatened Category	Presence Text
Limosa lapponica baueri Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat likely to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Neochmia ruficauda ruficauda Star Finch (eastern), Star Finch (southern) [26027]	Endangered	Species or species habitat likely to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat may occur within area
Poephila cincta cincta Southern Black-throated Finch [64447]	Endangered	Species or species habitat may occur within area
Pterodroma neglecta neglecta Kermadec Petrel (western) [64450]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Turnix melanogaster Black-breasted Button-quail [923]	Vulnerable	Species or species habitat known to occur within area
MAMMAL		
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Chalinolobus dwyeri Large-eared Pied Bat, Large Pied Bat [183]	Vulnerable	Species or species habitat likely to occur within area
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area
Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat likely to occur within area
Nyctophilus corbeni Corben's Long-eared Bat, South-eastern Long-eared Bat [83395]	Vulnerable	Species or species habitat may occur within area
Petauroides volans Greater Glider [254]	Vulnerable	Species or species habitat likely to occur within area
Petaurus australis australis Yellow-bellied Glider (south-eastern) [87600]	Vulnerable	Species or species habitat may occur within area
Phascolarctos cinereus (combined populations of Qld, NSW and the ACT) Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Endangered	Species or species habitat likely to occur within area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Xeromys myoides Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat known to occur within area
PLANT		
Atalaya collina Yarwun Whitewood [55417]	Endangered	Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
Bosistoa transversa Three-leaved Bosistoa, Yellow Satinheart [16091]	Vulnerable	Species or species habitat likely to occur within area
Bulbophyllum globuliforme Miniature Moss-orchid, Hoop Pine Orchid [6649]	Vulnerable	Species or species habitat likely to occur within area
Cossinia australiana Cossinia [3066]	Endangered	Species or species habitat likely to occur within area
Cupaniopsis shirleyana Wedge-leaf Tuckerroo [3205]	Vulnerable	Species or species habitat known to occur within area
Cycas megacarpa [55794]	Endangered	Species or species habitat known to occur within area
Cycas ophiolitica [55797]	Endangered	Species or species habitat known to occur within area
Decaspermum struckoiligum [78796]	Endangered	Species or species habitat may occur within area
Dichanthium setosum bluegrass [14159]	Vulnerable	Species or species habitat likely to occur within area
Eucalyptus raveretiana Black Ironbox [16344]	Vulnerable	Species or species habitat known to occur within area
Macadamia integrifolia Macadamia Nut, Queensland Nut Tree, Smooth-shelled Macadamia, Bush Nut, Nut Oak [7326]	Vulnerable	Species or species habitat likely to occur within area
Marsdenia brevifolia [64585]	Vulnerable	Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
Parsonia larcomensis Mt Larcom Silk Pod [64587]	Vulnerable	Species or species habitat known to occur within area
Samadera bidwillii Quassia [29708]	Vulnerable	Species or species habitat known to occur within area
REPTILE		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Delma torquata Adorned Delma, Collared Delma [1656]	Vulnerable	Species or species habitat may occur within area
Denisonia maculata Ornamental Snake [1193]	Vulnerable	Species or species habitat known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Egernia rugosa Yakka Skink [1420]	Vulnerable	Species or species habitat known to occur within area
Elseya albagula Southern Snapping Turtle, White-throated Snapping Turtle [81648]	Critically Endangered	Species or species habitat likely to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area

Scientific Name	Threatened Category	Presence Text
Furina dunmalli Dunmall's Snake [59254]	Vulnerable	Species or species habitat known to occur within area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Rheodytes leukops Fitzroy River Turtle, Fitzroy Tortoise, Fitzroy Turtle, White-eyed River Diver [1761]	Vulnerable	Species or species habitat known to occur within area

SHARK

Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding likely to occur within area
Sphyrna lewini Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area

Listed Migratory Species

[[Resource Information](#)]

Scientific Name	Threatened Category	Presence Text
Migratory Marine Birds		
Anous stolidus Common Noddy [825]		Species or species habitat known to occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat likely to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Phaethon lepturus White-tailed Tropicbird [1014]		Species or species habitat may occur within area
Sternula albifrons Little Tern [82849]		Species or species habitat may occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Migratory Marine Species		
Anoxypristis cuspidata Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat likely to occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area

Scientific Name	Threatened Category	Presence Text
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Dugong dugon Dugong [28]		Species or species habitat may occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Mobula alfredi as Manta alfredi Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat may occur within area
Mobula birostris as Manta birostris Giant Manta Ray [90034]		Species or species habitat may occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area

Scientific Name	Threatened Category	Presence Text
Orcaella heinsohni Australian Snubfin Dolphin [81322]		Species or species habitat may occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding likely to occur within area
Sousa sahalensis as Sousa chinensis Australian Humpback Dolphin [87942]		Breeding known to occur within area
Migratory Terrestrial Species		
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area
Symposiachrus trivirgatus as Monarcha trivirgatus Spectacled Monarch [83946]		Species or species habitat known to occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area

Scientific Name	Threatened Category	Presence Text
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area
Limnodromus semipalmatus Asian Dowitcher [843]		Species or species habitat may occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Lands

[\[Resource Information \]](#)

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Commonwealth Land Name

State

Defence

Defence - LOGISTIC SUPPORT DEPOT - ROCKHAMPTON [30262] QLD

Defence - LOGISTIC SUPPORT DEPOT - ROCKHAMPTON [30263] QLD

Defence - ROCKHAMPTON AIRFIELD [31950] QLD

Defence - ROCKHAMPTON AIRFIELD [31949] QLD

Defence - ROCKHAMPTON AIRFIELD [31948] QLD

Defence - ROCKHAMPTON TRAINING DEPOT [30261] QLD

Commonwealth Heritage Places

[\[Resource Information \]](#)

Name

State

Status

Historic

[ABC Radio Studios](#) QLD Listed place

Listed Marine Species

[\[Resource Information \]](#)

Scientific Name

Threatened Category

Presence Text

Bird

[Actitis hypoleucos](#)
Common Sandpiper [59309] Species or species habitat known to occur within area

[Anous stolidus](#)
Common Noddy [825] Species or species habitat known to occur within area

[Anseranas semipalmata](#)
Magpie Goose [978] Species or species habitat may occur within area overfly marine area

[Apus pacificus](#)
Fork-tailed Swift [678] Species or species habitat likely to occur within area overfly marine area

Scientific Name	Threatened Category	Presence Text
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Breeding likely to occur within area overfly marine area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area overfly marine area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area overfly marine area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat may occur within area
Chalcites osculans as Chrysococcyx osculans Black-eared Cuckoo [83425]		Species or species habitat likely to occur within area overfly marine area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area overfly marine area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area overfly marine area
Limnodromus semipalmatus Asian Dowitcher [843]		Species or species habitat may occur within area overfly marine area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area overfly marine area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area overfly marine area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area

Scientific Name	Threatened Category	Presence Text
Pachyptila turtur Fairy Prion [1066]		Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Phaethon lepturus White-tailed Tropicbird [1014]		Species or species habitat may occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area overfly marine area
Rostratula australis as Rostratula benghalensis (sensu lato) Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area overfly marine area
Sternula albifrons as Sterna albifrons Little Tern [82849]		Species or species habitat may occur within area
Symposiachrus trivirgatus as Monarcha trivirgatus Spectacled Monarch [83946]		Species or species habitat known to occur within area overfly marine area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area overfly marine area
Fish		
Acentronura tentaculata Shortpouch Pygmy Pipehorse [66187]		Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Campichthys tryoni Tryon's Pipefish [66193]		Species or species habitat may occur within area
Choeroichthys brachysoma Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
Corythoichthys amplexus Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area
Corythoichthys flavofasciatus Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area
Corythoichthys haematopterus Reef-top Pipefish [66201]		Species or species habitat may occur within area
Corythoichthys intestinalis Australian Messmate Pipefish, Banded Pipefish [66202]		Species or species habitat may occur within area
Corythoichthys ocellatus Orange-spotted Pipefish, Ocellated Pipefish [66203]		Species or species habitat may occur within area
Corythoichthys paxtoni Paxton's Pipefish [66204]		Species or species habitat may occur within area
Corythoichthys schultzi Schultz's Pipefish [66205]		Species or species habitat may occur within area
Doryrhamphus excisus Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area
Festucalex cinctus Girdled Pipefish [66214]		Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Filicampus tigris Tiger Pipefish [66217]		Species or species habitat may occur within area
Halicampus dunckeri Red-hair Pipefish, Duncker's Pipefish [66220]		Species or species habitat may occur within area
Halicampus grayi Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
Halicampus nitidus Glittering Pipefish [66224]		Species or species habitat may occur within area
Halicampus spinostris Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
Hippichthys cyanospilos Blue-speckled Pipefish, Blue-spotted Pipefish [66228]		Species or species habitat may occur within area
Hippichthys heptagonus Madura Pipefish, Reticulated Freshwater Pipefish [66229]		Species or species habitat may occur within area
Hippichthys penicillus Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area
Hippocampus bargibanti Pygmy Seahorse [66721]		Species or species habitat may occur within area
Hippocampus kuda Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
Hippocampus planifrons Flat-face Seahorse [66238]		Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Hippocampus zebra Zebra Seahorse [66241]		Species or species habitat may occur within area
Lissocampus runa Javelin Pipefish [66251]		Species or species habitat may occur within area
Micrognathus andersonii Anderson's Pipefish, Shortnose Pipefish [66253]		Species or species habitat may occur within area
Micrognathus brevis thorntail Pipefish, Thorn-tailed Pipefish [66254]		Species or species habitat may occur within area
Nannocampus pictus Painted Pipefish, Reef Pipefish [66263]		Species or species habitat may occur within area
Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area
Solenostomus paradoxus Ornate Ghostpipefish, Harlequin Ghost Pipefish, Ornate Ghost Pipefish [66184]		Species or species habitat may occur within area
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
Mammal		
Dugong dugon Dugong [28]		Species or species habitat may occur within area
Reptile		

Scientific Name	Threatened Category	Presence Text
Acalyptophis peronii Horned Seasnake [1114]		Species or species habitat may occur within area
Aipysurus duboisii Dubois' Seasnake [1116]		Species or species habitat may occur within area
Aipysurus eydouxii Spine-tailed Seasnake [1117]		Species or species habitat may occur within area
Aipysurus laevis Olive Seasnake [1120]		Species or species habitat may occur within area
Astrotia stokesii Stokes' Seasnake [1122]		Species or species habitat may occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area
Disteira major Olive-headed Seasnake [1124]		Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Emydocephalus annulatus Turtle-headed Seasnake [1125]		Species or species habitat may occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Hydrophis elegans Elegant Seasnake [1104]		Species or species habitat may occur within area
Lapemis curtus as Lapemis hardwickii Spine-bellied Seasnake [83554]		Species or species habitat may occur within area
Laticauda colubrina a sea krait [1092]		Species or species habitat may occur within area
Laticauda laticaudata a sea krait [1093]		Species or species habitat may occur within area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area

Whales and Other Cetaceans [Resource Information]

Current Scientific Name	Status	Type of Presence
Mammal		
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area

Current Scientific Name	Status	Type of Presence
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area
Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
Orcaella heinsohni as Orcaella brevirostris Australian Snubfin Dolphin [81322]		Species or species habitat may occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Sousa sahalensis as Sousa chinensis Australian Humpback Dolphin [87942]		Breeding known to occur within area
Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area

Extra Information

State and Territory Reserves		[Resource Information]
Protected Area Name	Reserve Type	State
Belgamba	Nature Refuge	QLD
Bouldercombe Gorge	Conservation Park	QLD
Bouldercombe Gorge	Resources Reserve	QLD

Protected Area Name	Reserve Type	State
Fitzroy River (Rev.1)	Fish Habitat Area (A)	QLD
Mount Archer	National Park	QLD
Pindari	Nature Refuge	QLD
Rockhampton Pistol Club	Nature Refuge	QLD
Rundle Range	National Park	QLD
Rundle Range	Resources Reserve	QLD

Nationally Important Wetlands [\[Resource Information \]](#)

Wetland Name	State
Fitzroy River Delta	QLD
Fitzroy River Floodplain	QLD

EPBC Act Referrals [\[Resource Information \]](#)

Title of referral	Reference	Referral Outcome	Assessment Status
Controlled action			
Aldoga Aluminium Smelter Gladstone	2001/160	Controlled Action	Post-Approval
Aldoga Solar Farm Project	2020/8773	Controlled Action	Assessment Approach
Arrow Bowen Pipeline (CSG), QLD	2012/6459	Controlled Action	Post-Approval
Balaclava Island Coal Export Terminal	2009/5158	Controlled Action	Completed
Blackwater to Gladstone Gas Pipeline Project	2011/6034	Controlled Action	Completed
Construct and operate 447km high pressure gas transmission pipeline	2009/4976	Controlled Action	Post-Approval
Construction of a high pressure buried gas pipeline, Kogan to Gladstone, QLD	2009/5029	Controlled Action	Post-Approval
Development of the Yarwun Coal Terminal	2012/6348	Controlled Action	Completed
Expansion of Salt Fields Bajool-Port Alma Operation	2003/1022	Controlled Action	Completed
Fitzroy Terminal Project	2011/6069	Controlled Action	Completed

Title of referral	Reference	Referral Outcome	Assessment Status
Controlled action			
Gas Pipeline with Alternative Pipeline to Supply Natural Gas Liquefaction Park	2008/4096	Controlled Action	Post-Approval
Gladstone - Fitzroy Pipeline	2007/3501	Controlled Action	Post-Approval
HPAL Nickel Plant	2005/2376	Controlled Action	Post-Approval
install & operate gas pipeline	2005/2059	Controlled Action	Post-Approval
Lot 7 Borrow Pits, Aldoga Road, Gladstone, Qld	2018/8381	Controlled Action	Post-Approval
Lower Fitzroy River Infrastructure Project	2009/5173	Controlled Action	Post-Approval
Nerimbera Quarry haul road	2007/3902	Controlled Action	Completed
Nickel and cobalt laterite mine, High-pressure acid leach plant, slurry pipeline	2005/2257	Controlled Action	Completed
Queensland Curtis LNG Project - Pipeline Network	2008/4399	Controlled Action	Post-Approval
Rockhampton Ring Road	2020/8628	Controlled Action	Assessment Approach
Stage 1 and 2 borrow pits, stockpiles, haul roads and Stage 3 red mud dam, Aldoga, Qld	2017/8107	Controlled Action	Completed
Talisman Saber 2005 Military Exercise	2004/1819	Controlled Action	Post-Approval
Not controlled action			
Aldoga Livestock Handling Facility	2017/7905	Not Controlled Action	Completed
Aldoga Power Station	2012/6265	Not Controlled Action	Completed
Aldoga Solar Farm, Aldoga, QLD	2018/8251	Not Controlled Action	Completed
Bajool - Port Alma Road Safety Upgrade Project	2019/8511	Not Controlled Action	Completed
Blackwater System Rail Expansion	2011/6209	Not Controlled Action	Completed
Cement Australia East End Mine Extension, Mt Larcom, QLD	2015/7595	Not Controlled Action	Completed

Title of referral	Reference	Referral Outcome	Assessment Status
Not controlled action			
Coke plant & Power Station project at Stanwell Energy Park	2005/1988	Not Controlled Action	Completed
Development of a New Airservices Integrated Facility	2008/4388	Not Controlled Action	Completed
Development of Parkhurst Master Planned Community	2012/6597	Not Controlled Action	Completed
Gladstone Steel Making Facility	2009/4786	Not Controlled Action	Completed
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed
Moura Link - Aldoga Rail Project	2007/3773	Not Controlled Action	Completed
Pilbean Drive Mount Archer natural disaster road repair works, QLD	2015/7545	Not Controlled Action	Completed
Proposed clay borrow pit and associated haul roads and stockpiles, Gladstone, Qld	2017/7858	Not Controlled Action	Completed
South Rockhampton Flood Levee Project, Qld	2019/8466	Not Controlled Action	Completed
Yeppen South Roadworks Project, Queensland	2013/6912	Not Controlled Action	Completed
Not controlled action (particular manner)			
Geotechnical Investigations for Balaclava Island Coal Export Terminal	2011/5905	Not Controlled Action (Particular Manner)	Post-Approval
Powerlink Gladstone to Larcom Creek 275kV Transmission Line	2003/1229	Not Controlled Action (Particular Manner)	Post-Approval
Referral decision			
Cascade Valley Residential Development	2011/5832	Referral Decision	Completed
Gas Transmission Pipeline to supply Natural Gas Liquefaction Park	2008/4061	Referral Decision	Completed
Biologically Important Areas			
Scientific Name		Behaviour	Presence
Dolphins			

Scientific Name	Behaviour	Presence
Sousa chinensis Indo-Pacific Humpback Dolphin [50]	Breeding	Known to occur
Tursiops aduncus Indo-Pacific/Spotted Bottlenose Dolphin [68418]	Breeding	Likely to occur
Seabirds		
Ardena pacifica Wedge-tailed Shearwater [84292]	Foraging	Likely to occur
Sharks		
Carcharias taurus Grey Nurse Shark [64469]	Foraging	Known to occur

Caveat

1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data are available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance

3 DATA SOURCES

Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species

Threatened, migratory and marine species distributions have been discerned through a variety of methods. Where distributions are well known and if time permits, distributions are inferred from either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc.) together with point locations and described habitat; or modelled (MAXENT or BIOCLIM habitat modelling) using

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions

4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

The following groups have been mapped, but may not cover the complete distribution of the species:

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded
- seals which have only been mapped for breeding sites near the Australian continent

The breeding sites may be important for the protection of the Commonwealth Marine environment.

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence](#)
- [Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact Us](#) page.

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WildNet Records Species List

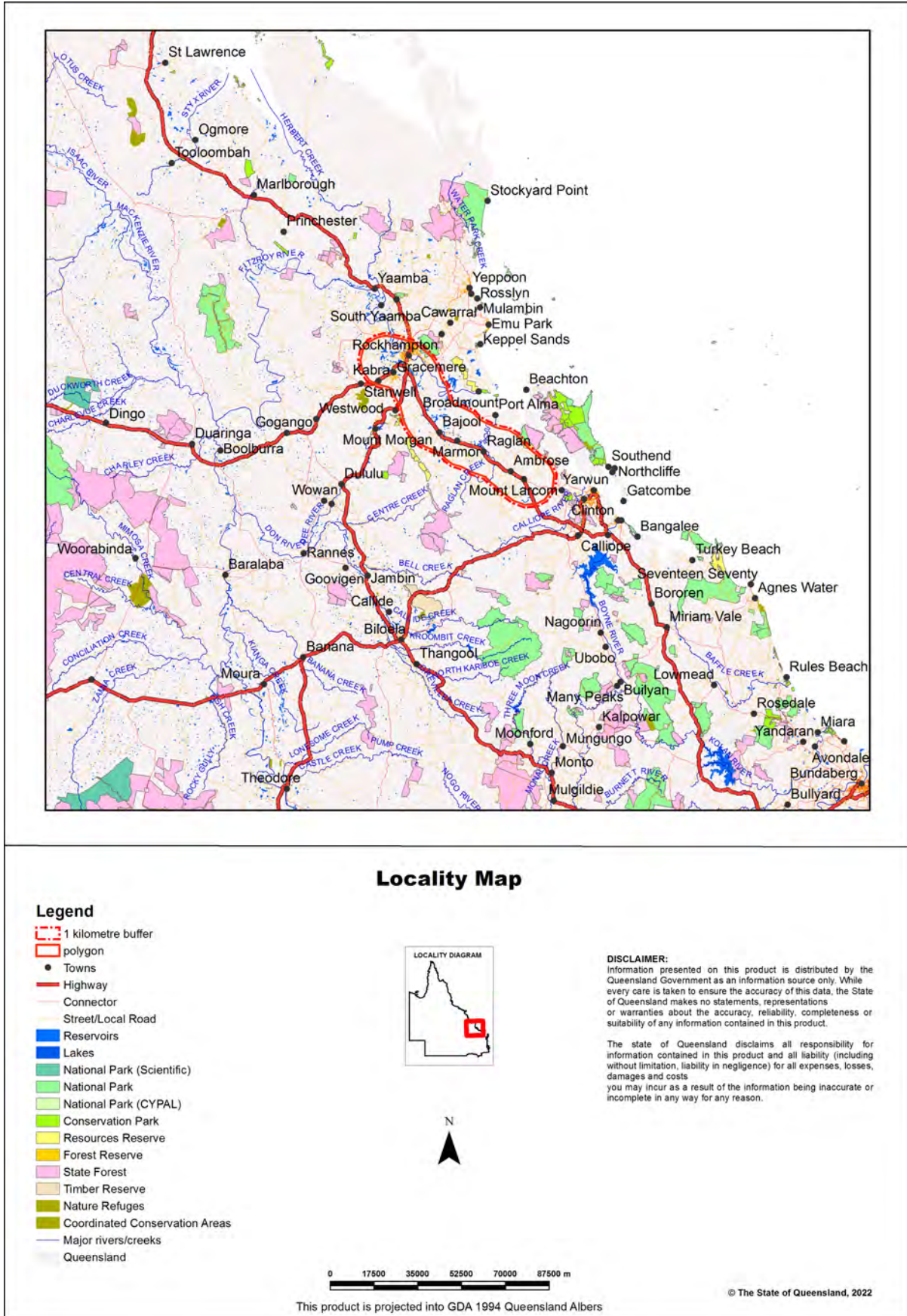


For the selected area of interest 190146.69ha

Current as at 11/03/2022

SGICSpecies

Map 1. Locality Map



Summary Information

The following table provides an overview of the area of interest .

Table 1. Area of interest details

Size (ha)	190,146.69
Local Government(s)	Gladstone Regional, Livingstone Shire, Rockhampton Regional
Bioregion(s)	Brigalow Belt
Subregion(s)	Mount Morgan Ranges, Marlborough Plains
Catchment(s)	Calliope, Fitzroy

Protected Area(s)

The following estates and/or reserves are located in the area of interest:

Rundle Range Resources Reserve
 Rundle Range National Park
 Mount Archer National Park
 Bouldercombe Gorge Resources Reserve
 Bouldercombe Gorge Conservation Park
 Bouldercombe State Forest
 Mount Larcom State Forest

World Heritage Area(s)

The following World Heritage Areas are located in the area of interest:

Great Barrier Reef

Ramsar Area(s)

No Ramsar Areas are located within the area of interest.

Species List

Introduction

This report is derived from a spatial layer generated from the [WildNet database](#) managed by the Department of Environment and Science. The layer which is generated weekly contains the WildNet wildlife records that are not classed as erroneous or duplicate, that have a location precision equal to or less than 10000 metres and do not have a count of zero.

The WildNet dataset is constantly being enhanced and the taxonomic and status information revised. If a species is not listed in this report, it does not mean it doesn't occur there and listed species may also no longer inhabit the area. It is recommended that you also access other internal and external data sources for species information in your area of interest (Refer Links and Support).

Table 2 lists the animals recorded within the area of interest and its one kilometre buffer.

Table 3 lists the plants recorded within the area of interest and its one kilometre buffer.

Table 4 lists the fungi recorded within the area of interest and its one kilometre buffer.

Table 5 lists the other species recorded within the area of interest and its one kilometre buffer.

Table 2. Animals recorded within the area of interest and its one kilometre buffer

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
26896	Actinopterygii	Ambassidae	<i>Ambassis agassizii</i>	Agassiz's glassfish	None	None	1	33	06/02/2020

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
26909	Actinopterygii	Anguillidae	<i>Anguilla obscura</i>	Pacific shortfin eel	None	None	0	3	08/04/2015
26910	Actinopterygii	Anguillidae	<i>Anguilla reinhardtii</i>	longfin eel	None	None	1	29	06/02/2020
26912	Actinopterygii	Apogonidae	<i>Glossamia aprion</i>	mouth almighty	None	None	1	12	20/01/2016
26914	Actinopterygii	Ariidae	<i>Neoarius graeffei</i>	blue catfish	None	None	0	3	31/05/2007
26920	Actinopterygii	Atherinidae	<i>Craterocephalus stercusmuscarum</i>	flyspecked hardyhead	None	None	0	40	06/02/2020
26922	Actinopterygii	Belontiidae	<i>Strongylura krefftii</i>	freshwater longtom	None	None	0	3	30/09/2006
26925	Actinopterygii	Centropomidae	<i>Lates calcarifer</i>	barramundi	None	None	0	10	09/04/2015
26938	Actinopterygii	Cichlidae	<i>Oreochromis mossambica</i>	Mozambique mouthbrooder	None	None	0	6	06/02/2020
26941	Actinopterygii	Clupeidae	<i>Nematalosa erebi</i>	bony bream	None	None	0	20	11/04/2015
26952	Actinopterygii	Eleotridae	<i>Gobiomorphus australis</i>	striped gudgeon	None	None	0	1	31/12/1994
26954	Actinopterygii	Eleotridae	<i>Hypseleotris compressa</i>	empire gudgeon	None	None	0	29	10/04/2015
26955	Actinopterygii	Eleotridae	<i>Hypseleotris galii</i>	firetail gudgeon	None	None	0	28	20/01/2016
26956	Actinopterygii	Eleotridae	<i>Hypseleotris klunzingeri</i>	western carp gudgeon	None	None	0	6	31/05/2007
26957	Actinopterygii	Eleotridae	<i>Hypseleotris species 1</i>	Midgley's carp gudgeon	None	None	0	1	06/02/2020
18168	Actinopterygii	Eleotridae	<i>Mogurnda adspersa</i>	southern purplespotted gudgeon	None	None	0	14	20/01/2016
26965	Actinopterygii	Eleotridae	<i>Oxyeleotris lineolata</i>	sleepy cod	None	None	0	7	31/05/2007
26970	Actinopterygii	Eleotridae	<i>Prionobutis microps</i>	smalleye gudgeon	None	None	0	1	09/04/2015
27001	Actinopterygii	Gobiidae	<i>Pseudogobius species</i>	blue-spot goby	None	None	0	1	08/04/2015
27003	Actinopterygii	Gobiidae	<i>Redigobius bikolanus</i>	speckled goby	None	None	0	1	28/09/2006
27011	Actinopterygii	Hemiramphidae	<i>Arrhamphus sclerolepis</i>	snubnose garfish	None	None	0	4	31/05/2007
27021	Actinopterygii	Megalopidae	<i>Megalops cyprinoides</i>	oxeye herring	None	None	0	4	31/05/2007
27029	Actinopterygii	Melanotaeniidae	<i>Melanotaenia splendida splendida</i>	eastern rainbowfish	None	None	2	31	06/02/2020
27035	Actinopterygii	Mugilidae	<i>Mugil cephalus</i>	sea mullet	None	None	0	12	23/11/2014
27036	Actinopterygii	Mugilidae	<i>Trachystoma petardi</i>	pinkeye mullet	None	None	0	2	14/12/1982
27039	Actinopterygii	Osteoglossidae	<i>Scleropages leichardti</i>	southern saratoga	None	None	0	1	31/12/1990
27042	Actinopterygii	Percichthyidae	<i>Macquaria ambigua</i>	golden perch	None	None	0	1	31/12/1990

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
27048	Actinopterygii	Plotosidae	<i>Neosilurus hyrtlii</i>	Hyrtl's catfish	None	None	1	7	08/04/2015
27055	Actinopterygii	Poeciliidae	<i>Gambusia holbrooki</i>	mosquitofish	None	None	0	22	06/02/2020
19548	Actinopterygii	Poeciliidae	<i>Poecilia reticulata</i>	guppy	None	None	0	2	31/12/1994
27059	Actinopterygii	Pseudomugilidae	<i>Pseudomugil signifer</i>	Pacific blue eye	None	None	0	1	31/12/1994
27061	Actinopterygii	Retropinnidae	<i>Retropinna semoni</i>	Australian smelt	None	None	0	1	31/12/1989
27068	Actinopterygii	Scorpaenidae	<i>Notesthes robusta</i>	bullrout	None	None	0	2	30/09/2006
27076	Actinopterygii	Synbranchidae	<i>Ophisternon gutturale</i>	swamp eel	None	None	0	5	08/04/2015
27083	Actinopterygii	Terapontidae	<i>Amniataba percoides</i>	barred grunter	None	None	1	15	08/04/2015
27089	Actinopterygii	Terapontidae	<i>Leiopotherapon unicolor</i>	spangled perch	None	None	0	22	06/02/2020
27094	Actinopterygii	Terapontidae	<i>Scortum hillii</i>	leathery grunter	None	None	0	3	11/04/2015
716	Amphibia	Bufoidea	<i>Rhinella marina</i>	cane toad	None	None	0	81	21/05/2019
624	Amphibia	Hylidae	<i>Cyclorana alboguttata</i>	greenstripe frog	C	None	4	23	10/01/2019
643	Amphibia	Hylidae	<i>Cyclorana brevipes</i>	superb collared frog	C	None	5	8	26/03/2014
620	Amphibia	Hylidae	<i>Cyclorana nova ehollandiae</i>	eastern snapping frog	C	None	5	5	31/10/1954
617	Amphibia	Hylidae	<i>Litoria balatus</i>	slender bleating tree frog	C	None	1	3	04/02/2010
627	Amphibia	Hylidae	<i>Litoria caerulea</i>	common green treefrog	C	None	20	59	24/10/2019
628	Amphibia	Hylidae	<i>Litoria chloris</i>	orange eyed treefrog	C	None	0	1	06/11/2017
608	Amphibia	Hylidae	<i>Litoria fallax</i>	eastern sedgefrog	C	None	11	55	07/11/2019
611	Amphibia	Hylidae	<i>Litoria gracilentia</i>	graceful treefrog	C	None	9	19	03/12/2017
612	Amphibia	Hylidae	<i>Litoria inermis</i>	bumpy rocketfrog	C	None	3	13	10/01/2019
614	Amphibia	Hylidae	<i>Litoria latopalmata</i>	broad palmed rocketfrog	C	None	3	13	10/02/2016
604	Amphibia	Hylidae	<i>Litoria nasuta</i>	striped rocketfrog	C	None	0	7	05/12/2017
596	Amphibia	Hylidae	<i>Litoria peronii</i>	emerald spotted treefrog	C	None	0	1	06/12/2011
599	Amphibia	Hylidae	<i>Litoria rothii</i>	northern laughing treefrog	C	None	0	6	18/03/2016
600	Amphibia	Hylidae	<i>Litoria rubella</i>	ruddy treefrog	C	None	3	30	09/01/2019
601	Amphibia	Hylidae	<i>Litoria sp.</i>	None	C	None	0	1	19/03/2015
29174	Amphibia	Hylidae	<i>Litoria wilcoxii</i>	eastern stony creek frog	C	None	1	2	31/12/1870
677	Amphibia	Limnodynastidae	<i>Limnodynastes convexiusculus</i>	marbled frog	C	None	1	1	31/12/1992
681	Amphibia	Limnodynastidae	<i>Limnodynastes peronii</i>	striped marshfrog	C	None	3	19	30/08/2019

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
682	Amphibia	Limnodynastidae	<i>Limnodynastes salmini</i>	salmon striped frog	C	None	3	20	09/01/2019
684	Amphibia	Limnodynastidae	<i>Limnodynastes tasmaniensis</i>	spotted grassfrog	C	None	7	33	18/03/2016
673	Amphibia	Limnodynastidae	<i>Limnodynastes terraereginae</i>	scarlet sided pobblebonk	C	None	3	12	20/12/2017
680	Amphibia	Limnodynastidae	<i>Platylepctrum ornatum</i>	ornate burrowing frog	C	None	3	21	18/03/2019
695	Amphibia	Myobatrachidae	<i>Crinia deserticola</i>	chirping froglet	C	None	0	5	26/03/2014
674	Amphibia	Myobatrachidae	<i>Mixophyes fasciolatus</i>	great barred frog	C	None	0	1	24/11/2017
659	Amphibia	Myobatrachidae	<i>Pseudophryne major</i>	great brown broodfrog	C	None	7	11	16/05/2018
661	Amphibia	Myobatrachidae	<i>Pseudophryne raveni</i>	copper backed broodfrog	C	None	1	3	30/04/1992
639	Amphibia	Myobatrachidae	<i>Uperoleia rugosa</i>	chubby gungan	C	None	5	9	23/12/2011
640	Amphibia	Myobatrachidae	<i>Uperoleia sp.</i>	None	C	None	0	1	06/12/2011
1419	Aves	Acanthizidae	<i>Acanthiza chrysorrhoa</i>	yellow-rumped thornbill	C	None	0	6	18/04/2013
1422	Aves	Acanthizidae	<i>Acanthiza nana</i>	yellow thornbill	C	None	0	6	28/08/1999
1423	Aves	Acanthizidae	<i>Acanthiza pusilla</i>	brown thornbill	C	None	0	2	07/02/2007
1425	Aves	Acanthizidae	<i>Acanthiza reguloides</i>	buff-rumped thornbill	C	None	0	1	12/06/2000
1408	Aves	Acanthizidae	<i>Gerygone levigaster</i>	mangrove gerygone	C	None	0	6	07/11/2014
1396	Aves	Acanthizidae	<i>Gerygone olivacea</i>	white-throated gerygone	C	None	1	52	15/02/2018
1397	Aves	Acanthizidae	<i>Gerygone palpebrosa</i>	fairly gerygone	C	None	0	10	05/10/2007
1403	Aves	Acanthizidae	<i>Pyrrholaemus sagittatus</i>	speckled warbler	C	None	0	3	31/12/1984
1382	Aves	Acanthizidae	<i>Sericornis frontalis</i>	white-browed scrubwren	C	None	0	8	12/02/2007
1384	Aves	Acanthizidae	<i>Sericornis magnirostra</i>	large-billed scrubwren	C	None	0	1	31/12/1930
1371	Aves	Acanthizidae	<i>Smicronis brevirostris</i>	weebill	C	None	1	9	18/03/2016
1742	Aves	Accipitridae	<i>Accipiter cirrocephalus</i>	collared sparrowhawk	C	None	1	5	20/04/2013
1729	Aves	Accipitridae	<i>Accipiter fasciatus</i>	brown goshawk	C	None	1	12	27/03/2015
1730	Aves	Accipitridae	<i>Accipiter novae hollandiae</i>	grey goshawk	C	None	2	3	31/12/1881
1732	Aves	Accipitridae	<i>Aquila audax</i>	wedge-tailed eagle	C	None	0	19	21/06/2018
1721	Aves	Accipitridae	<i>Aviceda subcristata</i>	Pacific baza	C	None	0	16	15/02/2018

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
1722	Aves	Accipitridae	<i>Circus approximans</i>	swamp harrier	C	None	0	22	25/03/2015
1723	Aves	Accipitridae	<i>Circus assimilis</i>	spotted harrier	C	None	0	6	15/06/2014
1725	Aves	Accipitridae	<i>Elanus axillaris</i>	black-shouldered kite	C	None	0	13	05/11/2014
1728	Aves	Accipitridae	<i>Erythrotriorchis radiatus</i>	red goshawk	E	V	0	2	31/12/1955
1718	Aves	Accipitridae	<i>Haliaeetus leucogaster</i>	white-bellied sea-eagle	C	None	3	53	28/04/2019
1720	Aves	Accipitridae	<i>Haliastur indus</i>	brahminy kite	C	None	1	21	13/07/2013
1707	Aves	Accipitridae	<i>Haliastur sphenurus</i>	whistling kite	C	None	0	197	28/04/2019
1708	Aves	Accipitridae	<i>Hamirostra melanosternon</i>	black-breasted buzzard	C	None	0	1	04/11/2014
1710	Aves	Accipitridae	<i>Hieraaetus morphnoides</i>	little eagle	C	None	0	3	06/11/2014
1712	Aves	Accipitridae	<i>Lophoictinia isura</i>	square-tailed kite	C	None	1	6	23/04/2019
1714	Aves	Accipitridae	<i>Milvus migrans</i>	black kite	C	None	1	53	21/05/2019
1702	Aves	Accipitridae	<i>Pandion cristatus</i>	eastern osprey	SL	None	1	9	06/05/2017
1305	Aves	Acrocephalidae	<i>Acrocephalus australis</i>	Australian reed-warbler	C	None	0	66	28/04/2019
1973	Aves	Aegothelidae	<i>Aegotheles cristatus</i>	Australian owl-nightjar	C	None	1	20	03/07/2018
1652	Aves	Alaudidae	<i>Mirafra javanica</i>	Horsfield's bushlark	C	None	1	25	26/03/2015
1776	Aves	Alcedinidae	<i>Ceyx azureus</i>	azure kingfisher	C	None	0	3	20/01/2016
1992	Aves	Anatidae	<i>Anas castanea</i>	chestnut teal	C	None	0	14	22/04/2014
1993	Aves	Anatidae	<i>Anas gracilis</i>	grey teal	C	None	1	203	28/04/2019
1994	Aves	Anatidae	<i>Anas platyrhynchos</i>	northern mallard	None	None	0	28	23/05/2002
1998	Aves	Anatidae	<i>Anas superciliosa</i>	Pacific black duck	C	None	0	263	28/04/2019
1999	Aves	Anatidae	<i>Aythya australis</i>	hardhead	C	None	0	140	28/04/2019
2001	Aves	Anatidae	<i>Biziura lobata</i>	musk duck	C	None	0	4	31/12/1924
2003	Aves	Anatidae	<i>Chenonetta jubata</i>	Australian wood duck	C	None	0	165	28/04/2019
2005	Aves	Anatidae	<i>Cygnus atratus</i>	black swan	C	None	0	171	11/02/2018
1977	Aves	Anatidae	<i>Dendrocygna arcuata</i>	wandering whistling-duck	C	None	1	81	06/05/2017
1978	Aves	Anatidae	<i>Dendrocygna eytoni</i>	plumed whistling-duck	C	None	0	74	06/05/2017
1980	Aves	Anatidae	<i>Malacorhynchus membranaceus</i>	pink-eared duck	C	None	0	21	19/08/2018
1982	Aves	Anatidae	<i>Nettapus coromandelianus</i>	cotton pygmy-goose	C	None	1	130	11/02/2018
1983	Aves	Anatidae	<i>Nettapus pulchellus</i>	green pygmy-goose	C	None	0	7	20/04/2013
1985	Aves	Anatidae	<i>Oxyura australis</i>	blue-billed duck	C	None	0	1	06/09/2000

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
1989	Aves	Anatidae	<i>Radjah radjah</i>	radjah shelduck	C	None	0	13	27/04/2012
1996	Aves	Anatidae	<i>Spatula rhynchotis</i>	Australasian shoveler	C	None	0	36	28/04/2019
1987	Aves	Anatidae	<i>Stictonetta naevosa</i>	freckled duck	C	None	0	9	28/04/2019
1976	Aves	Anatidae	<i>Tadorna tadornoides</i>	Australian shelduck	C	None	0	1	31/12/1995
1279	Aves	Anhingidae	<i>Anhinga novae hollandiae</i>	Australasian darter	C	None	1	171	28/04/2019
1963	Aves	Anseranatidae	<i>Anseranas semipalmata</i>	magpie goose	C	None	0	154	06/05/2017
1965	Aves	Apodidae	<i>Apus pacificus</i>	fork-tailed swift	SL	None	0	2	01/04/1973
1971	Aves	Apodidae	<i>Hirundapus caudacutus</i>	white-throated needletail	V	V	0	2	31/12/1997
1829	Aves	Ardeidae	<i>Ardea alba modesta</i>	eastern great egret	C	None	0	188	24/06/2018
1831	Aves	Ardeidae	<i>Ardea intermedia</i>	intermediate egret	C	None	1	175	06/05/2017
1832	Aves	Ardeidae	<i>Ardea pacifica</i>	white-necked heron	C	None	1	64	11/02/2018
1835	Aves	Ardeidae	<i>Ardea sumatrana</i>	great-billed heron	C	None	0	1	02/08/1990
1830	Aves	Ardeidae	<i>Bubulcus ibis</i>	cattle egret	C	None	0	85	24/06/2018
1839	Aves	Ardeidae	<i>Butorides striata</i>	striated heron	C	None	1	3	29/03/2015
1840	Aves	Ardeidae	<i>Egretta garzetta</i>	little egret	C	None	1	79	11/02/2018
1826	Aves	Ardeidae	<i>Egretta novaehollandiae</i>	white-faced heron	C	None	0	139	21/06/2018
1815	Aves	Ardeidae	<i>Ixobrychus flavicollis</i>	black bittern	C	None	1	4	02/04/2014
1818	Aves	Ardeidae	<i>Nycticorax caledonicus</i>	nankeen night-heron	C	None	1	26	30/03/2015
1658	Aves	Artamidae	<i>Artamus cinereus</i>	black-faced woodswallow	C	None	0	19	15/02/2018
1660	Aves	Artamidae	<i>Artamus leucorhynchus</i>	white-breasted woodswallow	C	None	1	41	21/05/2019
1646	Aves	Artamidae	<i>Artamus minor</i>	little woodswallow	C	None	2	6	31/12/1984
1647	Aves	Artamidae	<i>Artamus personatus</i>	masked woodswallow	C	None	0	1	07/11/2014
1649	Aves	Artamidae	<i>Artamus superciliosus</i>	white-browed woodswallow	C	None	1	4	16/10/2004
1654	Aves	Artamidae	<i>Cracticus nigrogularis</i>	piebald butcherbird	C	None	2	170	21/05/2019
1656	Aves	Artamidae	<i>Cracticus torquatus</i>	grey butcherbird	C	None	0	14	15/02/2018
1644	Aves	Artamidae	<i>Gymnorhina tibicen</i>	Australian magpie	C	None	1	253	21/05/2019
1645	Aves	Artamidae	<i>Strepera graculina</i>	piebald currawong	C	None	1	227	24/06/2018
1956	Aves	Burhinidae	<i>Burhinus grallarius</i>	bush stone-curlew	C	None	0	22	15/02/2018

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
1191	Aves	Cacatuidae	<i>Cacatua galerita</i>	sulphur-crested cockatoo	C	None	0	81	21/05/2019
1194	Aves	Cacatuidae	<i>Cacatua sanguinea</i>	little corella	C	None	0	53	28/04/2019
21967	Aves	Cacatuidae	<i>Cacatua tenuirostris</i>	long-billed corella	C	None	0	17	05/06/2006
1196	Aves	Cacatuidae	<i>Calyptorhynchus banksii</i>	red-tailed black-cockatoo	C	None	0	40	21/06/2018
1193	Aves	Cacatuidae	<i>Eolophus roseicapilla</i>	galah	C	None	0	57	21/05/2019
1192	Aves	Cacatuidae	<i>Lophochroa leadbeateri</i>	Major Mitchell's cockatoo	V	None	0	1	23/01/2000
1173	Aves	Cacatuidae	<i>Nymphicus hollandicus</i>	cockatiel	C	None	0	23	06/05/2017
1634	Aves	Campephagidae	<i>Coracina lineata</i>	barred cuckoo-shrike	C	None	0	1	18/10/1924
1635	Aves	Campephagidae	<i>Coracina maxima</i>	ground cuckoo-shrike	C	None	0	3	09/06/1999
1636	Aves	Campephagidae	<i>Coracina novae hollandiae</i>	black-faced cuckoo-shrike	C	None	0	130	21/05/2019
1637	Aves	Campephagidae	<i>Coracina papuensis</i>	white-bellied cuckoo-shrike	C	None	0	10	18/10/2016
1639	Aves	Campephagidae	<i>Edolisoma tenuirostre</i>	common cicadabird	C	None	1	9	31/10/2014
1640	Aves	Campephagidae	<i>Lalage leucomela</i>	varied triller	C	None	0	16	18/03/2016
1642	Aves	Campephagidae	<i>Lalage tricolor</i>	white-winged triller	C	None	2	19	06/11/2014
1975	Aves	Caprimulgidae	<i>Caprimulgus macrurus</i>	large-tailed nightjar	C	None	0	17	30/09/2017
1089	Aves	Casuariidae	<i>Dromaius novaehollandiae</i>	emu	C	None	0	6	15/02/2018
18332	Aves	Charadriidae	<i>Charadrius dubius</i>	little ringed plover	SL	None	0	1	16/10/2003
1936	Aves	Charadriidae	<i>Charadrius mongolus</i>	lesser sand plover	E	E	0	1	21/02/2007
1937	Aves	Charadriidae	<i>Charadrius ruficapillus</i>	red-capped plover	C	None	0	17	06/08/2012
1940	Aves	Charadriidae	<i>Eelseyornis melanops</i>	black-fronted dotterel	C	None	0	81	28/04/2019
1942	Aves	Charadriidae	<i>Erythronyx cinctus</i>	red-kneed dotterel	C	None	0	31	24/06/2018
1944	Aves	Charadriidae	<i>Pluvialis fulva</i>	Pacific golden plover	SL	None	0	3	05/11/2008
27774	Aves	Charadriidae	<i>Vanellus miles</i>	masked lapwing	C	None	0	46	06/05/2017
1933	Aves	Charadriidae	<i>Vanellus miles novaehollandiae</i>	masked lapwing (southern subspecies)	C	None	1	180	28/04/2019
18143	Aves	Charadriidae	<i>Vanellus tricolor</i>	banded lapwing	C	None	0	3	04/09/1958
1820	Aves	Ciconiidae	<i>Ephippiorhynchus asiaticus</i>	black-necked stork	C	None	0	41	05/11/2014

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1294	Aves	Cisticolidae	<i>Cisticola exilis</i>	golden-headed cisticola	C	None	0	80	11/02/2018
1295	Aves	Cisticolidae	<i>Cisticola juncidis laveryi</i>	zitting cisticola	C	None	0	11	18/03/2016
1628	Aves	Climacteridae	<i>Climacteris picumnus</i>	brown treecreeper	C	None	2	9	18/03/2016
18293	Aves	Climacteridae	<i>Cormobates leucophaea metastasis</i>	white-throated treecreeper (southern)	C	None	0	4	08/11/2014
1801	Aves	Columbidae	<i>Chalcophaps longirostris</i>	Pacific emerald dove	C	None	1	6	24/12/1998
1803	Aves	Columbidae	<i>Columba leucomela</i>	white-headed pigeon	C	None	0	1	31/08/1984
1804	Aves	Columbidae	<i>Columba livia</i>	rock dove	None	None	0	19	21/10/2016
1809	Aves	Columbidae	<i>Geopelia cuneata</i>	diamond dove	C	None	0	1	06/03/1993
1810	Aves	Columbidae	<i>Geopelia humeralis</i>	bar-shouldered dove	C	None	2	60	15/02/2018
18323	Aves	Columbidae	<i>Geopelia placida</i>	peaceful dove	C	None	1	202	21/05/2019
1785	Aves	Columbidae	<i>Geophaps scripta scripta</i>	squatter pigeon (southern subspecies)	V	V	3	59	18/06/2019
1787	Aves	Columbidae	<i>Leucosarcia melanoleuca</i>	wonga pigeon	C	None	1	4	01/11/2014
1789	Aves	Columbidae	<i>Lopholaimus antarcticus</i>	topknot pigeon	C	None	0	3	18/03/2016
1791	Aves	Columbidae	<i>Macropygia amboinensis</i>	brown cuckoo-dove	C	None	0	5	09/11/2017
1793	Aves	Columbidae	<i>Ocyphaps lophotes</i>	crested pigeon	C	None	0	126	28/04/2019
1795	Aves	Columbidae	<i>Phaps chalcoptera</i>	common bronzewing	C	None	0	7	06/12/2011
1770	Aves	Columbidae	<i>Ptilinopus magnificus</i>	wompoo fruit-dove	C	None	2	2	31/12/1860
1771	Aves	Columbidae	<i>Ptilinopus regina</i>	rose-crowned fruit-dove	C	None	1	6	06/12/2011
1774	Aves	Columbidae	<i>Streptopelia chinensis</i>	spotted dove	None	None	0	144	22/10/2016
1779	Aves	Coraciidae	<i>Eurystomus orientalis</i>	dollarbird	C	None	0	41	15/02/2018
1603	Aves	Corcoracidae	<i>Corcorax melanorhamphos</i>	white-winged chough	C	None	0	16	18/03/2016
1605	Aves	Corcoracidae	<i>Struthidea cinerea</i>	apostlebird	C	None	0	16	20/03/2015
1608	Aves	Corvidae	<i>Corvus coronoides</i>	Australian raven	C	None	0	11	08/11/2014
1609	Aves	Corvidae	<i>Corvus orru</i>	Torresian crow	C	None	0	241	21/05/2019
1754	Aves	Cuculidae	<i>Cacomantis flabelliformis</i>	fan-tailed cuckoo	C	None	2	13	18/03/2016
1750	Aves	Cuculidae	<i>Cacomantis pallidus</i>	pallid cuckoo	C	None	1	25	31/10/2014

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1743	Aves	Cuculidae	<i>Cacomantis variolosus</i>	brush cuckoo	C	None	0	1	31/10/1924
1751	Aves	Cuculidae	<i>Centropus phasianinus</i>	pheasant coucal	C	None	1	82	21/06/2018
1744	Aves	Cuculidae	<i>Chalcites basalis</i>	Horsfield's bronze-cuckoo	C	None	3	12	06/11/2014
1745	Aves	Cuculidae	<i>Chalcites lucidus</i>	shining bronze-cuckoo	C	None	0	3	16/10/2004
1756	Aves	Cuculidae	<i>Chalcites minutillus barnardi</i>	Eastern little bronze-cuckoo	C	None	0	3	18/08/2015
1748	Aves	Cuculidae	<i>Chalcites minutillus russatus</i>	Gould's bronze-cuckoo	C	None	0	1	28/05/1922
1736	Aves	Cuculidae	<i>Cuculus optatus</i>	oriental cuckoo	SL	None	1	1	31/12/1859
1738	Aves	Cuculidae	<i>Eudynamis orientalis</i>	eastern koel	C	None	1	60	11/02/2018
1740	Aves	Cuculidae	<i>Scythrops novaehollandiae</i>	channel-billed cuckoo	C	None	2	59	22/10/2016
1601	Aves	Dicruridae	<i>Dicrurus bracteatus</i>	spangled drongo	C	None	1	43	21/06/2018
1366	Aves	Estrildidae	<i>Lonchura castaneothorax</i>	chestnut-breasted mannikin	C	None	1	23	18/10/2016
1367	Aves	Estrildidae	<i>Lonchura punctulata</i>	nutmeg mannikin	None	None	0	35	22/10/2016
1369	Aves	Estrildidae	<i>Neochmia modesta</i>	plum-headed finch	C	None	2	13	30/03/2015
19936	Aves	Estrildidae	<i>Neochmia phaeton</i>	crimson finch	C	None	3	5	31/12/1984
1357	Aves	Estrildidae	<i>Neochmia ruficauda</i>	star finch	C	None	4	9	30/11/1991
18452	Aves	Estrildidae	<i>Neochmia ruficauda ruficauda</i>	star finch (eastern subspecies)	E	E	0	1	31/12/1958
1359	Aves	Estrildidae	<i>Neochmia temporalis</i>	red-browed finch	C	None	0	6	24/12/1998
1365	Aves	Estrildidae	<i>Poephila cincta cincta</i>	black-throated finch (white-rumped subspecies)	E	E	1	4	31/12/1984
1342	Aves	Estrildidae	<i>Taeniopygia bichenovii</i>	double-barred finch	C	None	2	108	28/04/2019
1343	Aves	Estrildidae	<i>Taeniopygia guttata</i>	zebra finch	C	None	1	9	28/03/2015
1962	Aves	Eurostopodidae	<i>Eurostopodus argus</i>	spotted nightjar	C	None	1	1	25/10/1896
1949	Aves	Eurostopodidae	<i>Eurostopodus mystacalis</i>	white-throated nightjar	C	None	0	4	15/02/2018
1716	Aves	Falconidae	<i>Falco berigora</i>	brown falcon	C	None	0	34	18/03/2016
1704	Aves	Falconidae	<i>Falco cenchroides</i>	nankeen kestrel	C	None	0	42	21/06/2018
1705	Aves	Falconidae	<i>Falco hypoleucos</i>	grey falcon	V	V	0	1	11/10/1975

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1691	Aves	Falconidae	<i>Falco longipennis</i>	Australian hobby	C	None	2	15	15/02/2018
1692	Aves	Falconidae	<i>Falco peregrinus</i>	peregrine falcon	C	None	0	3	17/06/1999
1693	Aves	Falconidae	<i>Falco subniger</i>	black falcon	C	None	0	1	20/10/1924
1923	Aves	Glareolidae	<i>Stiltia isabella</i>	Australian pratincole	C	None	0	2	16/10/2003
1678	Aves	Gruidae	<i>Antigone rubicunda</i>	brolga	C	None	0	50	20/01/2016
1766	Aves	Halcyonidae	<i>Dacelo leachii</i>	blue-winged kookaburra	C	None	0	53	11/02/2018
1767	Aves	Halcyonidae	<i>Dacelo novaeguineae</i>	laughing kookaburra	C	None	0	151	21/05/2019
1760	Aves	Halcyonidae	<i>Todiramphus macleayi</i>	forest kingfisher	C	None	2	93	21/06/2018
1761	Aves	Halcyonidae	<i>Todiramphus pyrrhopygius</i>	red-backed kingfisher	C	None	2	6	01/09/1954
1762	Aves	Halcyonidae	<i>Todiramphus sanctus</i>	sacred kingfisher	C	None	0	74	24/06/2018
1759	Aves	Halcyonidae	<i>Todiramphus sordidus</i>	Torresian kingfisher	C	None	0	3	04/08/2007
1583	Aves	Hirundinidae	<i>Cheramoeca leucosterna</i>	white-backed swallow	C	None	0	1	06/09/2000
1572	Aves	Hirundinidae	<i>Hirundo neoxena</i>	welcome swallow	C	None	0	92	28/04/2019
1585	Aves	Hirundinidae	<i>Petrochelidon ariel</i>	fairy martin	C	None	0	43	11/02/2018
1573	Aves	Hirundinidae	<i>Petrochelidon nigricans</i>	tree martin	C	None	0	30	15/02/2018
1928	Aves	Jacaniidae	<i>Irediparra gallinacea</i>	comb-crested jacana	C	None	1	121	28/04/2019
18153	Aves	Laridae	<i>Anous minutus</i>	black noddy	C	None	2	2	01/01/2004
1919	Aves	Laridae	<i>Chlidonias hybrida</i>	whiskered tern	C	None	1	56	11/02/2018
1920	Aves	Laridae	<i>Chlidonias leucopterus</i>	white-winged black tern	SL	None	0	1	31/12/1977
1912	Aves	Laridae	<i>Chroicocephalus novaehollandiae</i>	silver gull	C	None	0	37	17/10/2003
1886	Aves	Laridae	<i>Gelochelidon nilotica</i>	gull-billed tern	SL	None	0	19	19/04/2013
1896	Aves	Laridae	<i>Hydroprogne caspia</i>	Caspian tern	SL	None	0	41	28/04/2019
1913	Aves	Laridae	<i>Larus pacificus</i>	Pacific gull	C	None	0	2	01/01/1977
1898	Aves	Laridae	<i>Onychoprion fuscatus</i>	sooty tern	C	None	2	2	31/12/1859
1889	Aves	Laridae	<i>Sterna striata</i>	white-fronted tern	C	None	1	1	31/12/1867
1905	Aves	Laridae	<i>Sternula albifrons</i>	little tern	SL	None	0	3	17/01/2003
1895	Aves	Laridae	<i>Thalasseus bergii</i>	crested tern	SL	None	1	1	01/01/2004

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1570	Aves	Maluridae	<i>Malurus cyaneus</i>	superb fairy-wren	C	None	0	3	05/06/2006
1556	Aves	Maluridae	<i>Malurus lamberti sensu lato</i>	variegated fairy-wren	C	None	4	10	18/03/2016
1558	Aves	Maluridae	<i>Malurus melanopephalus</i>	red-backed fairy-wren	C	None	2	122	10/05/2019
1291	Aves	Megaluridae	<i>Cincloramphus cruralis</i>	brown songlark	C	None	1	24	07/11/2014
1292	Aves	Megaluridae	<i>Cincloramphus mathewsi</i>	rufous songlark	C	None	3	8	22/04/2014
1289	Aves	Megaluridae	<i>Cincloramphus timoriensis</i>	tawny grassbird	C	None	0	21	15/02/2018
1287	Aves	Megaluridae	<i>Poodytes gramineus</i>	little grassbird	C	None	0	3	07/11/2014
1694	Aves	Megapodiidae	<i>Alectura lathamii</i>	Australian brush-turkey	C	None	0	27	21/06/2018
1552	Aves	Meliphagidae	<i>Acanthagenys rufogularis</i>	spiny-cheeked honeyeater	C	None	0	5	01/09/1954
1539	Aves	Meliphagidae	<i>Entomyzon cyanotis</i>	blue-faced honeyeater	C	None	0	150	21/05/2019
1528	Aves	Meliphagidae	<i>Epthianura crocea</i>	yellow chat	V	None	0	8	01/03/2011
22459	Aves	Meliphagidae	<i>Epthianura crocea macgregori</i>	yellow chat (Dawson)	E	CE	1	157	05/08/2013
1524	Aves	Meliphagidae	<i>Gavicalis fasciogularis</i>	mangrove honeyeater	C	None	0	21	28/03/2015
1510	Aves	Meliphagidae	<i>Gavicalis versicolor</i>	varied honeyeater	C	None	0	1	18/06/1999
1496	Aves	Meliphagidae	<i>Gavicalis virescens</i>	singing honeyeater	C	None	0	1	31/10/1924
1497	Aves	Meliphagidae	<i>Lichmera indistincta</i>	brown honeyeater	C	None	0	156	28/04/2019
1499	Aves	Meliphagidae	<i>Manorina flavigula</i>	yellow-throated miner	C	None	0	9	16/09/2004
1500	Aves	Meliphagidae	<i>Manorina melanocephala</i>	noisy miner	C	None	0	133	28/04/2019
1504	Aves	Meliphagidae	<i>Meliphaga lewinii</i>	Lewin's honeyeater	C	None	2	46	18/03/2016
1507	Aves	Meliphagidae	<i>Melithreptus albogularis</i>	white-throated honeyeater	C	None	1	122	28/04/2019
1508	Aves	Meliphagidae	<i>Melithreptus brevirostris</i>	brown-headed honeyeater	C	None	0	2	18/10/2000
1483	Aves	Meliphagidae	<i>Melithreptus gularis</i>	black-chinned honeyeater	C	None	2	13	27/02/2018
1485	Aves	Meliphagidae	<i>Melithreptus lunatus</i>	white-naped honeyeater	C	None	0	8	18/03/2016
1488	Aves	Meliphagidae	<i>Myzomela obscura</i>	dusky honeyeater	C	None	1	12	18/03/2016
1489	Aves	Meliphagidae	<i>Myzomela sanguinolenta</i>	scarlet honeyeater	C	None	2	11	16/10/2004

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1491	Aves	Meliphagidae	<i>Philemon argenticeps</i>	silver-crowned friarbird	C	None	0	1	31/07/1966
1492	Aves	Meliphagidae	<i>Philemon buceroides</i>	helmeted friarbird	C	None	0	2	11/12/2002
1493	Aves	Meliphagidae	<i>Philemon citreogularis</i>	little friarbird	C	None	5	100	28/04/2019
1494	Aves	Meliphagidae	<i>Philemon corniculatus</i>	noisy friarbird	C	None	0	65	28/04/2019
1471	Aves	Meliphagidae	<i>Plectorhyncha lanceolata</i>	striped honeyeater	C	None	2	17	11/02/2018
1513	Aves	Meliphagidae	<i>Ptilotula fusca</i>	fuscous honeyeater	C	None	0	2	31/12/1984
1518	Aves	Meliphagidae	<i>Ptilotula penicillata</i>	white-plumed honeyeater	C	None	0	1	23/02/1922
1519	Aves	Meliphagidae	<i>Ptilotula plumula</i>	grey-fronted honeyeater	C	None	0	3	31/12/1984
1473	Aves	Meliphagidae	<i>Ramsayornis fasciatus</i>	bar-breasted honeyeater	C	None	0	27	27/02/2018
1511	Aves	Meliphagidae	<i>Stomiopera flava</i>	yellow honeyeater	C	None	0	1	15/11/2000
1764	Aves	Meropidae	<i>Merops ornatus</i>	rainbow bee-eater	C	None	1	72	28/04/2019
1594	Aves	Monarchidae	<i>Carterornis leucotis</i>	white-eared monarch	C	None	0	6	04/06/2000
1589	Aves	Monarchidae	<i>Grallina cyanoleuca</i>	magpie-lark	C	None	0	283	21/05/2019
1595	Aves	Monarchidae	<i>Monarcha melanopsis</i>	black-faced monarch	SL	None	2	8	13/05/2010
1599	Aves	Monarchidae	<i>Myiagra cyanoleuca</i>	satin flycatcher	SL	None	0	6	18/03/2016
1600	Aves	Monarchidae	<i>Myiagra inquieta</i>	restless flycatcher	C	None	1	19	06/05/2017
1586	Aves	Monarchidae	<i>Myiagra rubecula</i>	leaden flycatcher	C	None	0	31	21/10/2016
1597	Aves	Monarchidae	<i>Symposiachrus trivirgatus</i>	spectacled monarch	SL	None	0	11	13/05/2010
1455	Aves	Motacillidae	<i>Anthus novaes eelandiae</i>	Australasian pipit	C	None	0	54	23/03/2015
1451	Aves	Nectariniidae	<i>Cinnyris jugularis</i>	olive-backed sunbird	C	None	0	1	22/07/2000
1611	Aves	Nectariniidae	<i>Dicaeum hirundinaceum</i>	mistletoebird	C	None	0	98	28/04/2019
1453	Aves	Neosittidae	<i>Daphoenositta chrysoptera</i>	varied sittella	C	None	3	3	31/12/1867
1442	Aves	Oriolidae	<i>Oriolus sagittatus</i>	olive-backed oriole	C	None	1	38	28/04/2019
1444	Aves	Oriolidae	<i>Sphecotheres vieillotii</i>	Australasian figbird	C	None	1	145	28/04/2019
1680	Aves	Otididae	<i>Ardeotis australis</i>	Australian bustard	C	None	0	17	28/04/2019
1449	Aves	Pachycephalidae	<i>Colluricincla harmonica</i>	grey shrike-thrush	C	None	1	16	18/03/2016

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1450	Aves	Pachycephalidae	<i>Colluricincla megarrhyncha</i>	little shrike-thrush	C	None	1	23	21/06/2018
1431	Aves	Pachycephalidae	<i>Oreoica gutturalis</i>	crested bellbird	C	None	4	4	31/12/1859
1436	Aves	Pachycephalidae	<i>Pachycephala pectoralis</i>	golden whistler	C	None	2	7	22/07/2000
1437	Aves	Pachycephalidae	<i>Pachycephala rufiventris</i>	rufous whistler	C	None	0	60	18/03/2016
1415	Aves	Paradisaeidae	<i>Ptiloris paradiseus</i>	paradise riflebird	C	None	0	2	31/12/1984
1389	Aves	Pardalotidae	<i>Pardalotus punctatus</i>	spotted pardalote	C	None	0	4	26/03/2015
1390	Aves	Pardalotidae	<i>Pardalotus rubricatus</i>	red-browed pardalote	C	None	0	2	02/01/2006
1392	Aves	Pardalotidae	<i>Pardalotus striatus</i>	striated pardalote	C	None	3	112	24/06/2018
1360	Aves	Passeridae	<i>Passer domesticus</i>	house sparrow	None	None	0	43	03/11/2014
1284	Aves	Pelecanidae	<i>Pelecanus conspicillatus</i>	Australian pelican	C	None	0	193	28/04/2019
1347	Aves	Petroicidae	<i>Eopsaltria australis</i>	eastern yellow robin	C	None	0	3	16/10/2004
1339	Aves	Petroicidae	<i>Microeca fascinans</i>	jacky winter	C	None	0	7	31/12/1995
1261	Aves	Phalacrocoracidae	<i>Microcarbo melanoleucos</i>	little pied cormorant	C	None	0	156	28/04/2019
1275	Aves	Phalacrocoracidae	<i>Phalacrocorax carbo</i>	great cormorant	C	None	0	37	28/04/2019
1263	Aves	Phalacrocoracidae	<i>Phalacrocorax sulcirostris</i>	little black cormorant	C	None	0	179	28/04/2019
1264	Aves	Phalacrocoracidae	<i>Phalacrocorax varius</i>	pied cormorant	C	None	0	56	28/04/2019
1699	Aves	Phasianidae	<i>Coturnix pectoralis</i>	stubble quail	C	None	0	2	30/10/2014
1690	Aves	Phasianidae	<i>Pavo cristatus</i>	Indian peafowl	None	None	0	18	30/09/2001
1698	Aves	Phasianidae	<i>Synoicus chinensis</i>	king quail	C	None	0	1	23/06/1974
1687	Aves	Phasianidae	<i>Synoicus ypsilophorus</i>	brown quail	C	None	5	26	18/03/2016
1326	Aves	Pittidae	<i>Pitta versicolor</i>	noisy pitta	C	None	0	2	31/12/1984
1955	Aves	Podargidae	<i>Podargus strigoides</i>	tawny frogmouth	C	None	1	33	21/06/2018
1271	Aves	Podicipedidae	<i>Podiceps cristatus</i>	great crested grebe	C	None	0	17	18/03/2015
1260	Aves	Podicipedidae	<i>Poliiocephalus poliocephalus</i>	hoary-headed grebe	C	None	0	9	13/05/2010
1249	Aves	Podicipedidae	<i>Tachybaptus novaehollandiae</i>	Australasian grebe	C	None	2	163	24/06/2018
1318	Aves	Pomatostomidae	<i>Pomatostomus temporalis</i>	grey-crowned babbler	C	None	0	45	21/06/2018

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1204	Aves	Procellariidae	<i>Pterodroma nigripennis</i>	black-winged petrel	C	None	1	1	27/03/1990
1180	Aves	Psittacidae	<i>Alisterus scapularis</i>	Australian king-parrot	C	None	0	1	31/12/1997
1182	Aves	Psittacidae	<i>Aprosmictus erythropterus</i>	red-winged parrot	C	None	1	50	21/06/2018
1170	Aves	Psittacidae	<i>Barnardius zonarius</i>	Australian ringneck	C	None	0	1	09/06/1993
1151	Aves	Psittacidae	<i>Melopsittacus undulatus</i>	budgerigar	C	None	0	2	01/09/1954
1130	Aves	Psittacidae	<i>Northiella haematogaster</i>	blue bonnet	C	None	1	1	31/12/1859
1147	Aves	Psittacidae	<i>Parvipsitta pusilla</i>	little lorikeet	C	None	0	6	29/03/2015
1136	Aves	Psittacidae	<i>Platycercus adscitus</i>	pale-headed rosella	C	None	0	147	28/04/2019
21976	Aves	Psittacidae	<i>Platycercus adscitus palliceps</i>	pale-headed rosella (southern form)	C	None	0	1	03/04/2013
1118	Aves	Psittacidae	<i>Psephotus haematonotus</i>	red-rumped parrot	C	None	1	1	31/12/1859
1119	Aves	Psittacidae	<i>Psephotus pulcherrimus</i>	paradise parrot	PE	EX	0	2	17/01/2003
1124	Aves	Psittacidae	<i>Trichoglossus chlorolepidotus</i>	scaly-breasted lorikeet	C	None	1	85	28/04/2019
1125	Aves	Psittacidae	<i>Trichoglossus moluccanus</i>	rainbow lorikeet	C	None	3	214	28/04/2019
1623	Aves	Psophodidae	<i>Psophodes olivaceus</i>	eastern whipbird	C	None	2	5	18/03/2016
1682	Aves	Rallidae	<i>Amauornis moluccana</i>	pale-vented bush-hen	C	None	0	1	31/12/1984
1686	Aves	Rallidae	<i>Fulica atra</i>	Eurasian coot	C	None	0	113	28/04/2019
1673	Aves	Rallidae	<i>Gallinula tenebrosa</i>	dusky moorhen	C	None	0	164	28/04/2019
1675	Aves	Rallidae	<i>Gallirallus philippensis</i>	buff-banded rail	C	None	0	10	30/03/2015
1662	Aves	Rallidae	<i>Porphyrio melanotus</i>	purple swamphen	C	None	0	136	28/04/2019
1664	Aves	Rallidae	<i>Porzana fluminea</i>	Australian spotted crane	C	None	1	2	08/10/1994
1674	Aves	Rallidae	<i>Tribonyx ventralis</i>	black-tailed native-hen	C	None	0	6	06/10/2009
1665	Aves	Rallidae	<i>Zapornia pusilla</i>	Baillon's crane	C	None	1	3	07/10/1994
1667	Aves	Rallidae	<i>Zapornia tabuensis</i>	spotless crane	C	None	2	4	06/08/1994
1893	Aves	Recurvirostridae	<i>Himantopus himantopus</i>	black-winged stilt	C	None	0	124	28/04/2019
1881	Aves	Recurvirostridae	<i>Recurvirostra novaehollandiae</i>	red-necked avocet	C	None	0	29	07/11/2014
1575	Aves	Rhipiduridae	<i>Rhipidura albiscapa</i>	grey fantail	C	None	0	60	24/06/2018

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1576	Aves	Rhipiduridae	<i>Rhipidura leucophrys</i>	willie wagtail	C	None	0	209	28/04/2019
1578	Aves	Rhipiduridae	<i>Rhipidura rufifrons</i>	rufous fantail	SL	None	0	16	18/03/2016
1883	Aves	Rostratulidae	<i>Rostratula australis</i>	Australian painted-snipe	E	E	2	6	10/06/2013
1872	Aves	Scolopacidae	<i>Arenaria interpres</i>	ruddy turnstone	SL	None	0	1	02/11/2014
1874	Aves	Scolopacidae	<i>Calidris acuminata</i>	sharp-tailed sandpiper	SL	None	0	43	18/08/2011
1878	Aves	Scolopacidae	<i>Calidris ferruginea</i>	curlew sandpiper	CR	CE	0	13	18/08/2011
1880	Aves	Scolopacidae	<i>Calidris ruficollis</i>	red-necked stint	SL	None	0	6	24/03/2011
1857	Aves	Scolopacidae	<i>Gallinago hardwickii</i>	Latham's snipe	SL	None	2	45	11/02/2018
1867	Aves	Scolopacidae	<i>Limosa lapponica baueri</i>	Western Alaskan bar-tailed godwit	V	V	0	6	26/02/2010
1855	Aves	Scolopacidae	<i>Limosa limosa</i>	black-tailed godwit	SL	None	0	23	28/04/2019
1843	Aves	Scolopacidae	<i>Numenius madagascariensis</i>	eastern curlew	E	CE	0	9	18/08/2011
1844	Aves	Scolopacidae	<i>Numenius minutus</i>	little curlew	SL	None	0	2	16/10/2003
1845	Aves	Scolopacidae	<i>Numenius phaeopus</i>	whimbrel	SL	None	0	4	24/03/2011
1861	Aves	Scolopacidae	<i>Tringa incana</i>	wandering tattler	SL	None	0	1	02/04/1997
1853	Aves	Scolopacidae	<i>Tringa nebularia</i>	common greenshank	SL	None	0	20	26/03/2015
1841	Aves	Scolopacidae	<i>Tringa stagnatilis</i>	marsh sandpiper	SL	None	0	60	18/03/2016
1827	Aves	Scolopacidae	<i>Xenus cinereus</i>	terek sandpiper	SL	None	0	1	19/02/2011
1102	Aves	Strigidae	<i>Ninox boobook</i>	southern boobook	C	None	0	20	18/03/2016
1101	Aves	Strigidae	<i>Ninox connivens</i>	barking owl	C	None	1	4	16/10/2004
1107	Aves	Strigidae	<i>Ninox strenua</i>	powerful owl	V	None	0	7	31/12/1997
1314	Aves	Sturnidae	<i>Acridotheres tristis</i>	common myna	None	None	0	5	23/03/2015
1303	Aves	Sturnidae	<i>Sturnus vulgaris</i>	common starling	None	None	0	11	06/10/2009
1822	Aves	Threskiornithidae	<i>Platalea flavipes</i>	yellow-billed spoonbill	C	None	0	71	27/03/2015
1823	Aves	Threskiornithidae	<i>Platalea regia</i>	royal spoonbill	C	None	1	142	28/04/2019
1825	Aves	Threskiornithidae	<i>Plegadis falcinellus</i>	glossy ibis	SL	None	0	69	28/04/2019
1812	Aves	Threskiornithidae	<i>Threskiornis molucca</i>	Australian white ibis	C	None	1	196	28/04/2019
1800	Aves	Threskiornithidae	<i>Threskiornis spinicollis</i>	straw-necked ibis	C	None	0	162	11/02/2018

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1276	Aves	Timaliidae	<i>Zosterops lateralis</i>	silveryeye	C	None	0	21	21/06/2018
1091	Aves	Turnicidae	<i>Turnix maculosus</i>	red-backed button-quail	C	None	0	3	06/12/2011
1092	Aves	Turnicidae	<i>Turnix melanogaster</i>	black-breasted button-quail	V	V	2	10	17/01/2003
1094	Aves	Turnicidae	<i>Turnix pyrrhotorax</i>	red-chested button-quail	C	None	0	4	07/11/2014
1081	Aves	Turnicidae	<i>Turnix varius</i>	painted button-quail	C	None	0	5	31/12/1997
1082	Aves	Turnicidae	<i>Turnix velox</i>	little button-quail	C	None	0	2	31/12/1995
1108	Aves	Tytonidae	<i>Tyto javanica</i>	eastern barn owl	C	None	2	6	15/02/2018
1109	Aves	Tytonidae	<i>Tyto longimembris</i>	eastern grass owl	C	None	0	3	15/02/2018
9	Insecta	Lycaenidae	<i>Jalmenus eubulus</i>	pale imperial hairstreak	V	None	0	2	31/12/1995
19313	Insecta	Lycaenidae	<i>Lampides boeticus</i>	long-tailed pea-blue	None	None	0	1	21/06/2018
19149	Insecta	Nymphalidae	<i>Acraea andromacha andromacha</i>	glasswing	None	None	0	1	21/06/2018
19177	Insecta	Nymphalidae	<i>Danaus plexippus</i>	monarch	None	None	0	1	21/06/2018
19185	Insecta	Nymphalidae	<i>Euploea corinna</i>	common crow	None	None	0	1	21/06/2018
19163	Insecta	Nymphalidae	<i>Hypolimnas bolina nerina</i>	varied eggfly	None	None	0	1	21/06/2018
19122	Insecta	Nymphalidae	<i>Melanitis leda bankia</i>	evening brown	None	None	0	1	21/06/2018
19086	Insecta	Pieridae	<i>Eurema hecabe</i>	large grass-yellow	None	None	0	1	21/06/2018
34861	Malacostraca	Palaemonidae	<i>Macrobrachium sp.</i>	None	None	None	0	1	06/12/2011
930	Mammalia	Acrobatidae	<i>Acrobates pygmaeus</i>	feathertail glider	C	None	2	8	14/09/2017
1084	Mammalia	Bovidae	<i>Bos taurus</i>	European cattle	None	None	0	6	18/03/2016
1067	Mammalia	Canidae	<i>Canis familiaris</i>	dog	None	None	0	4	21/06/2018
1068	Mammalia	Canidae	<i>Canis familiaris (dingo)</i>	dingo	None	None	0	6	31/12/1997
1069	Mammalia	Canidae	<i>Canis sp.</i>	None	None	None	0	1	03/04/2013
1071	Mammalia	Canidae	<i>Vulpes vulpes</i>	red fox	None	None	0	6	15/02/2018
800	Mammalia	Dasyuridae	<i>Dasyurus hallucatus</i>	northern quoll	C	E	3	7	05/04/2021
804	Mammalia	Dasyuridae	<i>Dasyurus sp.</i>	None	C	None	0	1	31/12/1881
808	Mammalia	Dasyuridae	<i>Phascogale tapoatafa tapoatafa</i>	brush-tailed phascogale	C	None	0	3	31/12/1988
810	Mammalia	Dasyuridae	<i>Planigale ingrami</i>	long-tailed planigale	C	None	0	1	19/07/2004
811	Mammalia	Dasyuridae	<i>Planigale maculata</i>	common planigale	C	None	0	6	04/11/2014

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1039	Mammalia	Delphinidae	<i>Orcaella heinsohni</i>	Australian snubfin dolphin	V	None	0	1	14/07/2015
1006	Mammalia	Emballonuridae	<i>Saccolaimus flaviventris</i>	yellow-bellied sheath-tail bat	C	None	0	17	03/07/2018
1012	Mammalia	Emballonuridae	<i>Taphozous sp.</i>	None	C	None	0	1	13/02/2007
1013	Mammalia	Emballonuridae	<i>Taphozous troughtoni</i>	Troughton's sheath-tail bat	C	None	0	4	06/02/2007
814	Mammalia	Equidae	<i>Equus caballus</i>	horse	None	None	0	3	31/12/1997
1056	Mammalia	Felidae	<i>Felis catus</i>	cat	None	None	0	2	15/02/2018
832	Mammalia	Leporidae	<i>Lepus europaeus</i>	European brown hare	None	None	0	5	05/11/2014
834	Mammalia	Leporidae	<i>Oryctolagus cuniculus</i>	rabbit	None	None	0	8	21/06/2018
901	Mammalia	Macropodidae	<i>Macropus giganteus</i>	eastern grey kangaroo	C	None	1	22	21/06/2018
912	Mammalia	Macropodidae	<i>Notamacropus agilis</i>	agile wallaby	C	None	2	16	18/03/2016
914	Mammalia	Macropodidae	<i>Notamacropus dorsalis</i>	black-striped wallaby	C	None	10	22	18/08/2015
902	Mammalia	Macropodidae	<i>Notamacropus parryi</i>	whiptail wallaby	C	None	0	16	07/05/2019
904	Mammalia	Macropodidae	<i>Notamacropus rufogriseus</i>	red-necked wallaby	C	None	0	2	06/11/2014
900	Mammalia	Macropodidae	<i>Petrogale herberti</i>	Herbert's rock-wallaby	C	None	2	4	17/01/2003
887	Mammalia	Macropodidae	<i>Petrogale inornata</i>	unadorned rock-wallaby	C	None	3	3	17/01/2003
896	Mammalia	Macropodidae	<i>Thylogale stigmatica</i>	red-legged pademelon	C	None	0	1	31/12/1995
885	Mammalia	Macropodidae	<i>Wallabia bicolor</i>	swamp wallaby	C	None	2	13	21/06/2018
994	Mammalia	Megadermatidae	<i>Macroderma gigas</i>	ghost bat	E	V	0	1	30/11/2006
954	Mammalia	Miniopteridae	<i>Miniopterus australis</i>	little bent-wing bat	C	None	15	38	18/03/2016
955	Mammalia	Miniopteridae	<i>Miniopterus schreibersii oceanensis</i>	eastern bent-wing bat	C	None	4	16	31/10/2014
989	Mammalia	Molossidae	<i>Austronomus australis</i>	white-striped freetail bat	C	None	0	5	06/11/2014
996	Mammalia	Molossidae	<i>Chaerephon jobensis</i>	northern freetail bat	C	None	0	12	18/03/2016
998	Mammalia	Molossidae	<i>Mormopterus lumsdenae</i>	northern free-tailed bat	C	None	0	7	18/03/2016
1000	Mammalia	Molossidae	<i>Mormopterus norfolkensis</i>	east coast freetail bat	C	None	0	1	06/02/2007
22061	Mammalia	Molossidae	<i>Mormopterus ridei</i>	eastern free-tailed bat	C	None	0	13	18/03/2016
988	Mammalia	Molossidae	<i>Mormopterus sp.</i>	None	C	None	0	1	31/12/1997

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767	Mammalia	Muridae	<i>Hydromys chrysogaster</i>	water rat	C	None	2	14	18/03/2015
761	Mammalia	Muridae	<i>Melomys sp.</i>	None	C	None	0	1	31/12/1994
764	Mammalia	Muridae	<i>Mus musculus</i>	house mouse	None	None	0	5	02/11/2014
747	Mammalia	Muridae	<i>Pseudomys delicatulus</i>	delicate mouse	C	None	1	1	17/01/2003
749	Mammalia	Muridae	<i>Pseudomys gracilicaudatus</i>	eastern chestnut mouse	C	None	0	1	23/12/2011
731	Mammalia	Muridae	<i>Rattus rattus</i>	black rat	None	None	1	4	17/05/2004
836	Mammalia	Ornithorhynchidae	<i>Ornithorhynchus anatinus</i>	platypus	SL	None	0	4	01/07/2009
784	Mammalia	Peramelidae	<i>Isodon macrourus</i>	northern brown bandicoot	C	None	0	15	15/02/2018
787	Mammalia	Peramelidae	<i>Perameles nasuta</i>	long-nosed bandicoot	C	None	2	7	17/01/2003
875	Mammalia	Petauridae	<i>Petaurus australis australis</i>	yellow-bellied glider (southern subspecies)	V	None	0	10	06/11/2014
879	Mammalia	Petauridae	<i>Petaurus norfolcensis</i>	squirrel glider	C	None	2	6	12/04/2017
36762	Mammalia	Petauridae	<i>Petaurus notatus</i>	Kreff's glider	C	None	0	12	15/02/2018
859	Mammalia	Phalangeridae	<i>Trichosurus vulpecula</i>	common brushtail possum	C	None	4	42	15/02/2018
860	Mammalia	Phascolarctidae	<i>Phascolarctos cinereus</i>	koala	V	E	0	14	18/03/2016
862	Mammalia	Potoroidae	<i>Aepyprymnus rufescens</i>	rufous bettong	C	None	9	28	18/03/2016
2455	Mammalia	Pseudocheiridae	<i>Petauroides armillatus</i>	central greater glider	E	V	6	14	06/12/2011
851	Mammalia	Pseudocheiridae	<i>Pseudocheirus peregrinus</i>	common ringtail possum	C	None	4	11	18/03/2016
984	Mammalia	Pteropodidae	<i>Pteropus alecto</i>	black flying-fox	C	None	2	14	08/11/2014
962	Mammalia	Pteropodidae	<i>Pteropus poliocephalus</i>	grey-headed flying-fox	C	V	0	4	17/01/2003
963	Mammalia	Pteropodidae	<i>Pteropus scapulatus</i>	little red flying-fox	C	None	0	2	18/03/2016
964	Mammalia	Pteropodidae	<i>Pteropus sp.</i>	None	C	None	0	5	31/12/1980
966	Mammalia	Pteropodidae	<i>Syconycteris australis</i>	eastern blossom bat	C	None	1	1	31/12/1988
970	Mammalia	Rhinolophidae	<i>Rhinolophus sp.</i>	None	C	None	0	1	30/04/1941
1080	Mammalia	Suidae	<i>Sus scrofa</i>	pig	None	None	0	9	15/02/2018
838	Mammalia	Tachyglossidae	<i>Tachyglossus aculeatus</i>	short-beaked echidna	SL	None	1	24	15/02/2018
972	Mammalia	Vespertilionidae	<i>Chalinolobus gouldii</i>	Gould's wattled bat	C	None	0	18	18/03/2016
973	Mammalia	Vespertilionidae	<i>Chalinolobus morio</i>	chocolate wattled bat	C	None	0	5	31/10/2014
961	Mammalia	Vespertilionidae	<i>Chalinolobus nigrogriseus</i>	hoary wattled bat	C	None	0	7	31/10/2014

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948	Mammalia	Vespertilionidae	<i>Chalinolobus picatus</i>	little pied bat	C	None	0	8	31/10/2014
952	Mammalia	Vespertilionidae	<i>Kerivoula papuensis</i>	golden-tipped bat	C	None	1	1	31/12/1960
22066	Mammalia	Vespertilionidae	<i>Myotis macropus</i>	large-footed myotis	C	None	0	3	31/10/2014
946	Mammalia	Vespertilionidae	<i>Nyctophilus bifax</i>	northern long-eared bat	C	None	0	3	17/01/2003
936	Mammalia	Vespertilionidae	<i>Nyctophilus gouldi</i>	Gould's long-eared bat	C	None	0	1	06/02/2007
938	Mammalia	Vespertilionidae	<i>Nyctophilus sp.</i>	None	C	None	0	6	31/10/2014
943	Mammalia	Vespertilionidae	<i>Scoteanax rueppellii</i>	greater broad-nosed bat	C	None	0	2	13/02/2007
931	Mammalia	Vespertilionidae	<i>Scotorepens greyii</i>	little broad-nosed bat	C	None	0	13	18/03/2016
19464	Mammalia	Vespertilionidae	<i>Scotorepens orion</i>	south-eastern broad-nosed bat	C	None	0	2	13/02/2007
932	Mammalia	Vespertilionidae	<i>Scotorepens sanborni</i>	northern broad-nosed bat	C	None	0	1	17/01/2003
933	Mammalia	Vespertilionidae	<i>Scotorepens sp.</i>	None	C	None	0	1	02/11/2014
934	Mammalia	Vespertilionidae	<i>Vespadelus baverstocki</i>	inland forest bat	C	None	0	4	31/10/2014
925	Mammalia	Vespertilionidae	<i>Vespadelus pumilus</i>	eastern forest bat	C	None	0	3	13/02/2007
927	Mammalia	Vespertilionidae	<i>Vespadelus sp.</i>	None	C	None	0	2	31/10/2014
928	Mammalia	Vespertilionidae	<i>Vespadelus troughtoni</i>	eastern cave bat	C	None	0	3	31/10/2014
929	Mammalia	Vespertilionidae	<i>Vespadelus vulturinus</i>	little forest bat	C	None	0	5	31/10/2014
574	Reptilia	Agamidae	<i>Chlamydosaurus kingii</i>	frilled lizard	C	None	1	5	14/09/2017
567	Reptilia	Agamidae	<i>Diporiphora australis</i>	tommy roundhead	C	None	2	8	02/05/2018
554	Reptilia	Agamidae	<i>Intellagama lesueurii</i>	eastern water dragon	C	None	0	6	24/11/2017
556	Reptilia	Agamidae	<i>Pogona barbata</i>	bearded dragon	C	None	1	13	21/06/2018
537	Reptilia	Boidae	<i>Antaresia maculosa</i>	spotted python	C	None	3	5	03/11/2017
540	Reptilia	Boidae	<i>Aspidites melan ocephalus</i>	black-headed python	C	None	1	3	15/02/2018
519	Reptilia	Boidae	<i>Morelia spilota</i>	carpet python	C	None	1	11	04/07/2018
393	Reptilia	Carphodactylidae	<i>Nephurus asper</i>	spiny knob-tailed gecko	C	None	1	2	31/12/1986
62	Reptilia	Chelidae	<i>Chelodina expansa</i>	broad-shelled river turtle	C	None	0	7	10/04/2015
63	Reptilia	Chelidae	<i>Chelodina longicollis</i>	eastern snake-necked turtle	C	None	0	5	20/11/2014

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30272	Reptilia	Chelidae	<i>Eiseya albagula</i>	southern snapping turtle	CR	CE	3	3	26/05/2004
58	Reptilia	Chelidae	<i>Emydura macquarii kreftii</i>	Krefft's river turtle	C	None	2	30	20/01/2016
54	Reptilia	Chelidae	<i>Wollumbinia latisternum</i>	saw-shelled turtle	C	None	0	1	03/11/2014
522	Reptilia	Colubridae	<i>Boiga irregularis</i>	brown tree snake	C	None	1	10	09/11/2017
512	Reptilia	Colubridae	<i>Dendrelaphis punctulatus</i>	green tree snake	C	None	6	14	17/06/2017
508	Reptilia	Colubridae	<i>Tropidonophis mairii</i>	freshwater snake	C	None	11	38	05/10/2017
584	Reptilia	Crocodylidae	<i>Crocodylus porosus</i>	estuarine crocodile	V	None	0	2	20/07/2010
404	Reptilia	Diplodactylidae	<i>Amalosa rhombifer</i>	zig-zag gecko	C	None	7	18	10/07/2018
429	Reptilia	Diplodactylidae	<i>Diplodactylus vittatus</i>	wood gecko	C	None	2	3	23/12/2011
378	Reptilia	Diplodactylidae	<i>Oedura tryoni</i>	southern spotted velvet gecko	C	None	5	12	20/11/2017
369	Reptilia	Diplodactylidae	<i>Strophurus williamsi</i>	soft-spined gecko	C	None	1	1	26/05/2004
511	Reptilia	Elapidae	<i>Acanthophis antarcticus</i>	common death adder	V	None	0	1	31/12/1995
374	Reptilia	Elapidae	<i>Aipysurus laevis</i>	olive sea snake	C	None	1	1	31/12/1926
501	Reptilia	Elapidae	<i>Cacophis harriettae</i>	white-crowned snake	C	None	1	4	25/02/2005
455	Reptilia	Elapidae	<i>Cryptophis boschmai</i>	Carpentaria whip snake	C	None	3	5	17/01/2003
458	Reptilia	Elapidae	<i>Cryptophis nigrostriatus</i>	black-striped snake	C	None	3	3	31/10/1980
493	Reptilia	Elapidae	<i>Demansia psammophis</i>	yellow-faced whipsnake	C	None	0	4	18/03/2016
496	Reptilia	Elapidae	<i>Demansia vestigiata</i>	lesser black whipsnake	C	None	5	9	07/02/2015
483	Reptilia	Elapidae	<i>Denisonia maculata</i>	ornamental snake	V	V	21	24	17/01/2003
486	Reptilia	Elapidae	<i>Furina diadema</i>	red-naped snake	C	None	4	11	28/11/2017
487	Reptilia	Elapidae	<i>Furina dunmalli</i>	Dunmall's snake	V	V	1	1	18/11/1971
476	Reptilia	Elapidae	<i>Hemiaspis damelii</i>	grey snake	E	None	14	22	11/05/2015
477	Reptilia	Elapidae	<i>Hemiaspis signata</i>	black-bellied swamp snake	C	None	0	1	31/12/1980
479	Reptilia	Elapidae	<i>Hoplocephalus bitorquatus</i>	pale-headed snake	C	None	12	12	17/01/2003
361	Reptilia	Elapidae	<i>Hydrophis elegans</i>	elegant sea snake	C	None	1	1	31/12/1926
353	Reptilia	Elapidae	<i>Hydrophis zweifeli</i>	Australian beaked sea snake	C	None	1	1	31/12/1926

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
470	Reptilia	Elapidae	<i>Oxyuranus scutellatus</i>	coastal taipan	C	None	1	4	31/12/1995
472	Reptilia	Elapidae	<i>Pseudechis australis</i>	king brown snake	C	None	0	1	31/12/1980
474	Reptilia	Elapidae	<i>Pseudechis guttatus</i>	spotted black snake	C	None	1	1	31/03/1967
462	Reptilia	Elapidae	<i>Pseudechis porphyriacus</i>	red-bellied black snake	C	None	1	3	01/11/2014
454	Reptilia	Elapidae	<i>Pseudonaja textilis</i>	eastern brown snake	C	None	2	12	24/04/2017
441	Reptilia	Elapidae	<i>Suta suta</i>	myall snake	C	None	1	1	28/02/1974
444	Reptilia	Elapidae	<i>Vermicella annulata</i>	bandy-bandy	C	None	1	3	23/02/2006
420	Reptilia	Gekkonidae	<i>Gehyra dubia</i>	dubious dtella	C	None	3	42	10/07/2018
411	Reptilia	Gekkonidae	<i>Hemidactylus frenatus</i>	house gecko	None	None	0	3	20/03/2015
413	Reptilia	Gekkonidae	<i>Heteronotia binoei</i>	Bynoe's gecko	C	None	10	30	30/03/2015
332	Reptilia	Pygopodidae	<i>Delma inornata</i>	patternless delma	C	None	1	1	26/05/2004
323	Reptilia	Pygopodidae	<i>Delma tincta</i>	excitable delma	C	None	0	7	03/11/2017
324	Reptilia	Pygopodidae	<i>Delma torquata</i>	collared delma	V	V	1	1	31/12/1974
325	Reptilia	Pygopodidae	<i>Lialis burtonis</i>	Burton's legless lizard	C	None	2	5	28/03/2015
329	Reptilia	Pygopodidae	<i>Pygopus lepidopodus</i>	common scaly-foot	C	None	1	1	17/01/2003
26886	Reptilia	Pygopodidae	<i>Pygopus schraderi</i>	eastern hooded scaly-foot	C	None	1	1	17/01/2003
308	Reptilia	Scincidae	<i>Anomalopus verreauxii</i>	three-clawed worm-skink	C	None	1	1	22/03/1975
221	Reptilia	Scincidae	<i>Bellatorias frerei</i>	major skink	C	None	2	2	09/06/1984
294	Reptilia	Scincidae	<i>Carlia munda</i>	shaded-litter rainbow-skink	C	None	1	6	24/11/2017
34646	Reptilia	Scincidae	<i>Carlia pectoralis</i>	open-litter rainbow skink	C	None	0	4	29/03/2015
297	Reptilia	Scincidae	<i>Carlia pectoralis sensu lato</i>	None	C	None	3	3	26/05/2004
298	Reptilia	Scincidae	<i>Carlia rhomboidalis</i>	blue-throated rainbow-skink	C	None	0	2	31/12/1995
302	Reptilia	Scincidae	<i>Carlia schmeltzii</i>	robust rainbow-skink	C	None	8	27	18/03/2016
277	Reptilia	Scincidae	<i>Carlia vivax</i>	tussock rainbow-skink	C	None	3	11	30/10/2014
214	Reptilia	Scincidae	<i>Concinnia brachysoma</i>	northern bar-sided skink	C	None	0	5	07/02/2007
188	Reptilia	Scincidae	<i>Concinnia martini</i>	dark bar-sided skink	C	None	3	3	31/12/1996
193	Reptilia	Scincidae	<i>Concinnia tenuis</i>	bar-sided skink	C	None	1	5	02/05/2018
31898	Reptilia	Scincidae	<i>Cryptoblepharus pulcher</i>	elegant snake-eyed skink	C	None	0	22	12/04/2017

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
274	Reptilia	Scincidae	<i>Cryptoblepharus</i> sp.	None	C	None	0	2	31/12/1980
260	Reptilia	Scincidae	<i>Cryptoblepharus virgatus sensu lato</i>	None	C	None	8	14	26/05/2004
239	Reptilia	Scincidae	<i>Ctenotus</i> sp.	None	C	None	0	1	18/03/2016
240	Reptilia	Scincidae	<i>Ctenotus spaldingi</i>	straight-browed ctenotus	C	None	1	5	01/11/2014
243	Reptilia	Scincidae	<i>Ctenotus taeniolatus</i>	copper-tailed skink	C	None	3	10	18/03/2016
216	Reptilia	Scincidae	<i>Cyclodomorphus gerrardii</i>	pink-tongued lizard	C	None	12	14	17/01/2003
227	Reptilia	Scincidae	<i>Egernia rugosa</i>	yakka skink	V	V	2	5	17/01/2003
206	Reptilia	Scincidae	<i>Eremiascincus fasciolatus</i>	narrow-banded sand swimmer	C	None	3	5	17/01/2003
207	Reptilia	Scincidae	<i>Eremiascincus richardsonii</i>	broad-banded sand swimmer	C	None	0	1	31/12/1988
190	Reptilia	Scincidae	<i>Eulamprus quoyii</i>	eastern water skink	C	None	6	11	30/03/2015
173	Reptilia	Scincidae	<i>Glaphyromorphus punctulatus</i>	fine-spotted mulch-skink	C	None	1	6	12/02/2007
174	Reptilia	Scincidae	<i>Glaphyromorphus</i> sp.	None	C	None	0	1	14/07/2010
179	Reptilia	Scincidae	<i>Lampropholis adonis</i>	diamond-shielded sunskink	C	None	0	2	30/04/1992
180	Reptilia	Scincidae	<i>Lampropholis amicula</i>	friendly sunskink	C	None	0	1	22/02/2012
184	Reptilia	Scincidae	<i>Lampropholis delicata</i>	dark-flecked garden sunskink	C	None	5	9	03/11/2014
170	Reptilia	Scincidae	<i>Lampropholis guichenoti</i>	pale-flecked garden sunskink	C	None	0	2	18/03/2016
167	Reptilia	Scincidae	<i>Lerista fragilis</i>	eastern mulch slider	C	None	0	2	23/12/2011
150	Reptilia	Scincidae	<i>Lygisaurus foliorum</i>	tree-base litter-skink	C	None	3	17	02/11/2014
127	Reptilia	Scincidae	<i>Menetia greyii</i>	common dwarf skink	C	None	0	1	07/11/2014
138	Reptilia	Scincidae	<i>Morethia taeniopleura</i>	fire-tailed skink	C	None	0	4	18/03/2016
113	Reptilia	Scincidae	<i>Ophioscincus cooloolensis</i>	Cooloola snake-skink	C	None	0	1	31/12/1993
317	Reptilia	Scincidae	<i>Praeteropus brevicollis</i>	short-necked worm-skink	C	None	30	31	17/01/2003
104	Reptilia	Scincidae	<i>Tiliqua scincoides</i>	eastern blue-tongued lizard	C	None	0	2	31/01/1983
108	Reptilia	Typhlopidae	<i>Anilius affinis</i>	small-headed blind snake	C	None	1	1	31/12/1866
91	Reptilia	Typhlopidae	<i>Anilius ligatus</i>	robust blind snake	C	None	1	1	31/12/1996
82	Reptilia	Typhlopidae	<i>Anilius unguirostris</i>	claw-snouted blind snake	C	None	2	3	22/02/2012
69	Reptilia	Varanidae	<i>Varanus scalaris</i>	spotted tree monitor	C	None	0	1	31/12/1981

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
70	Reptilia	Varanidae	<i>Varanus semiremex</i>	rusty monitor	C	None	0	1	31/12/1976
60	Reptilia	Varanidae	<i>Varanus tristis</i>	black-tailed monitor	C	None	1	6	10/07/2018
61	Reptilia	Varanidae	<i>Varanus varius</i>	lace monitor	C	None	0	5	18/03/2016

Table 3. Plants recorded within the area of interest and its one kilometre buffer

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
8240	Charophyceae	Characeae	<i>Nitella myriotricha</i>	None	C	None	1	1	01/08/1966
22117	Equisetopsida	Acanthaceae	<i>Asystasia gangetica</i> subsp. <i>gangetica</i>	None	None	None	1	1	10/08/2006
12326	Equisetopsida	Acanthaceae	<i>Avicennia marina</i>	None	C	None	0	2	13/11/2008
6799	Equisetopsida	Acanthaceae	<i>Avicennia marina</i> subsp. <i>eucaalyptifolia</i>	None	C	None	1	1	24/09/2008
17767	Equisetopsida	Acanthaceae	<i>Brunoniella australis</i>	blue trumpet	C	None	2	6	15/02/2018
15850	Equisetopsida	Acanthaceae	<i>Graptophyllum excelsum</i>	None	NT	None	4	14	22/07/2010
15853	Equisetopsida	Acanthaceae	<i>Graptophyllum spinigerum</i>	None	C	None	3	6	19/10/2012
5869	Equisetopsida	Acanthaceae	<i>Harnieria hygrophiloides</i>	white karambal	C	None	2	3	19/04/1999
16936	Equisetopsida	Acanthaceae	<i>Hypoestes floribunda</i> var. <i>floribunda</i>	None	C	None	1	1	31/05/1866
15811	Equisetopsida	Acanthaceae	<i>Justicia betonica</i>	None	None	None	3	4	21/06/2018
16375	Equisetopsida	Acanthaceae	<i>Pseuderanthemum variabile</i>	pastel flower	C	None	0	6	22/07/2010
16262	Equisetopsida	Acanthaceae	<i>Rostellularia adscendens</i>	None	C	None	0	4	06/12/2011
16256	Equisetopsida	Acanthaceae	<i>Rostellularia adscendens</i> var. <i>adscendens</i>	None	C	None	1	1	07/02/1981
33640	Equisetopsida	Acanthaceae	<i>Ruellia simplex</i>	None	None	None	2	2	13/12/2004
14976	Equisetopsida	Acanthaceae	<i>Thunbergia grandiflora</i>	sky flower	None	None	1	1	22/01/2008
41761	Equisetopsida	Agavaceae	<i>Agave angustifolia</i>	None	None	None	1	1	15/12/2004
14889	Equisetopsida	Agavaceae	<i>Agave sisalana</i>	sisal hemp	None	None	2	2	18/05/1984
11724	Equisetopsida	Agavaceae	<i>Furcraea foetida</i>	None	None	None	1	1	13/12/2004
18751	Equisetopsida	Aizoaceae	<i>Trianthema</i>	None	None	None	0	2	12/11/2008
16014	Equisetopsida	Aizoaceae	<i>Trianthema portulacastrum</i>	black pigweed	None	None	4	5	15/12/2004
18101	Equisetopsida	Amaranthaceae	<i>Achyranthes aspera</i>	None	C	None	0	4	22/07/2010
11736	Equisetopsida	Amaranthaceae	<i>Alternanthera</i>	None	None	None	0	1	10/02/2009
18026	Equisetopsida	Amaranthaceae	<i>Alternanthera denticulata</i>	lesser joyweed	C	None	1	1	14/12/2004
18027	Equisetopsida	Amaranthaceae	<i>Alternanthera ficoidea</i>	None	None	None	2	2	24/06/2004
18029	Equisetopsida	Amaranthaceae	<i>Alternanthera nana</i>	hairy joyweed	C	None	1	3	22/07/2010
11849	Equisetopsida	Amaranthaceae	<i>Alternanthera pungens</i>	khaki weed	None	None	2	2	14/12/2004
17981	Equisetopsida	Amaranthaceae	<i>Amaranthus viridis</i>	green amaranth	None	None	5	6	14/12/2004

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
17499	Equisetopsida	Amaranthaceae	<i>Deeringia amaranthoides</i>	redberry	C	None	1	2	19/04/1999
17500	Equisetopsida	Amaranthaceae	<i>Deeringia arborescens</i>	climbing deeringia	C	None	1	1	24/04/2003
11728	Equisetopsida	Amaranthaceae	<i>Gomphrena</i>	None	None	None	0	1	21/06/2018
17051	Equisetopsida	Amaranthaceae	<i>Gomphrena celosioides</i>	gomphrena weed	None	None	5	7	10/05/2019
11782	Equisetopsida	Amaranthaceae	<i>Guilleminea densa</i>	small matweed	None	None	1	1	14/12/2004
11702	Equisetopsida	Amaryllidaceae	<i>Proiphys cunninghamii</i>	Moreton Bay lily	C	None	1	1	27/03/1993
17173	Equisetopsida	Anacardiaceae	<i>Euroschinus falcatus</i>	None	C	None	0	20	21/06/2018
17172	Equisetopsida	Anacardiaceae	<i>Euroschinus falcatus</i> var. <i>falcatus</i>	None	C	None	1	3	22/07/2010
16720	Equisetopsida	Anacardiaceae	<i>Mangifera indica</i>	mango	None	None	4	5	18/01/2012
16424	Equisetopsida	Anacardiaceae	<i>Pleiogynium timorense</i>	Burdekin plum	C	None	1	18	21/06/2018
11769	Equisetopsida	Anacardiaceae	<i>Schinus terebinthifolius</i>	None	None	None	5	7	21/06/2019
41406	Equisetopsida	Annonaceae	<i>Huberantha nitidissima</i>	None	C	None	0	4	22/07/2010
8144	Equisetopsida	Annonaceae	<i>Melodorum leichhardtii</i>	None	C	None	3	19	22/07/2010
15495	Equisetopsida	Apiaceae	<i>Cyclosporum leptophyllum</i>	None	None	None	1	1	14/12/2004
9484	Equisetopsida	Apocynaceae	<i>Alstonia constricta</i>	bitterbark	C	None	2	17	11/07/2018
5631	Equisetopsida	Apocynaceae	<i>Alyxia magnifolia</i>	None	C	None	0	3	19/04/1999
19732	Equisetopsida	Apocynaceae	<i>Alyxia ruscifolia</i>	None	C	None	5	31	21/06/2018
17935	Equisetopsida	Apocynaceae	<i>Asclepias curassavica</i>	red-head cottonbush	None	None	6	12	21/06/2018
9698	Equisetopsida	Apocynaceae	<i>Carissa ovata</i>	currantbush	C	None	1	24	15/02/2018
17693	Equisetopsida	Apocynaceae	<i>Cascabela thevetia</i>	yellow oleander	None	None	7	7	14/12/2004
17710	Equisetopsida	Apocynaceae	<i>Catharanthus roseus</i>	pink periwinkle	None	None	3	3	14/12/2004
15479	Equisetopsida	Apocynaceae	<i>Cryptostegia grandiflora</i>	rubber vine	None	None	12	29	21/06/2019
36295	Equisetopsida	Apocynaceae	<i>Cynanchum viminale</i>	None	C	None	0	7	12/11/2008
35895	Equisetopsida	Apocynaceae	<i>Cynanchum viminale</i> subsp. <i>australe</i>	None	C	None	0	4	19/04/1999
35894	Equisetopsida	Apocynaceae	<i>Cynanchum viminale</i> subsp. <i>brunonianum</i>	None	C	None	4	6	22/07/2010
17050	Equisetopsida	Apocynaceae	<i>Gomphocarpus physocarpus</i>	balloon cottonbush	None	None	4	13	15/02/2018
4710	Equisetopsida	Apocynaceae	<i>Gymnema pleiadenium</i>	None	C	None	0	2	19/04/1999
11202	Equisetopsida	Apocynaceae	<i>Hoya australis</i>	None	C	None	0	14	21/06/2018
16922	Equisetopsida	Apocynaceae	<i>Hoya australis</i> subsp. <i>australis</i>	None	C	None	1	1	19/03/1989
41661	Equisetopsida	Apocynaceae	<i>Leichhardtia lloydii</i>	None	C	None	0	1	19/04/1999
41666	Equisetopsida	Apocynaceae	<i>Leichhardtia micradenia</i>	None	C	None	2	3	19/04/1999
41654	Equisetopsida	Apocynaceae	<i>Leichhardtia microlepis</i>	None	C	None	1	10	22/07/2010

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41642	Equisetopsida	Apocynaceae	<i>Leichhardtia rostrata</i>	None	C	None	1	1	17/04/1997
41662	Equisetopsida	Apocynaceae	<i>Leichhardtia viridiflora</i>	None	C	None	0	5	19/04/1999
41644	Equisetopsida	Apocynaceae	<i>Leichhardtia viridiflora</i> subsp. <i>viridiflora</i>	None	C	None	2	2	19/03/1943
16521	Equisetopsida	Apocynaceae	<i>Parsonsia lanceolata</i>	northern silkpod	C	None	7	15	09/04/2013
5948	Equisetopsida	Apocynaceae	<i>Parsonsia larcomensis</i>	None	V	V	7	7	12/08/1999
11416	Equisetopsida	Apocynaceae	<i>Parsonsia leichhardtii</i>	black silkpod	C	None	0	3	19/04/1999
5945	Equisetopsida	Apocynaceae	<i>Parsonsia paulforsteri</i>	None	C	None	3	14	22/07/2010
16525	Equisetopsida	Apocynaceae	<i>Parsonsia plaesiophylla</i>	None	C	None	2	5	22/07/2010
14344	Equisetopsida	Apocynaceae	<i>Parsonsia rotata</i>	veinless silkpod	C	None	0	5	19/04/1999
16526	Equisetopsida	Apocynaceae	<i>Parsonsia straminea</i>	monkey rope	C	None	0	1	21/06/2018
16527	Equisetopsida	Apocynaceae	<i>Parsonsia velutina</i>	hairy silkpod	C	None	2	13	22/07/2010
11185	Equisetopsida	Apocynaceae	<i>Rauvolfia tetraphylla</i>	None	None	None	8	8	13/02/2019
16184	Equisetopsida	Apocynaceae	<i>Secamone elliptica</i>	None	C	None	1	20	22/07/2010
16059	Equisetopsida	Apocynaceae	<i>Tabernaemontana</i> <i>pandacaqui</i>	banana bush	C	None	0	1	27/03/1993
41249	Equisetopsida	Apocynaceae	<i>Vincetoxicum grandiflorum</i>	None	C	None	0	4	19/04/1999
35914	Equisetopsida	Apocynaceae	<i>Vincetoxicum ovatum</i>	None	C	None	4	13	09/03/2003
12389	Equisetopsida	Araceae	<i>Gymnostachys anceps</i>	settler's flax	C	None	1	5	22/07/2010
16456	Equisetopsida	Araceae	<i>Pistia stratiotes</i>	water lettuce	None	None	1	1	03/06/2010
6367	Equisetopsida	Araceae	<i>Syngonium podophyllum</i>	None	None	None	1	1	14/12/2004
11142	Equisetopsida	Araceae	<i>Typhonium brownii</i>	black arum lily	C	None	1	1	31/05/1992
41442	Equisetopsida	Araliaceae	<i>Heptapleurum actinophyllum</i>	None	C	None	0	4	19/04/1999
8462	Equisetopsida	Araliaceae	<i>Polyscias elegans</i>	celery wood	C	None	0	22	22/07/2010
14858	Equisetopsida	Arecaceae	<i>Archontophoenix</i> <i>cunninghamiana</i>	piccabeen palm	C	None	0	1	18/01/2012
12776	Equisetopsida	Arecaceae	<i>Livistona australis</i>	cabbage tree palm	C	None	0	1	18/01/2012
29766	Equisetopsida	Arecaceae	<i>Livistona decora</i>	None	C	None	0	8	19/04/1999
17972	Equisetopsida	Aristolochiaceae	<i>Aristolochia elegans</i>	calico-flower	None	None	0	1	30/06/1994
19747	Equisetopsida	Asparagaceae	<i>Asparagus aethiopicus</i>	ground asparagus	None	None	0	1	10/05/2019
7563	Equisetopsida	Asparagaceae	<i>Asparagus africanus</i>	ornamental asparagus	None	None	1	3	22/05/1997
7566	Equisetopsida	Asparagaceae	<i>Asparagus plumosus</i>	feathered asparagus fern	None	None	0	2	22/07/2010
8885	Equisetopsida	Asparagaceae	<i>Asparagus racemosus</i>	native asparagus	C	None	2	2	05/07/2015
17937	Equisetopsida	Aspleniaceae	<i>Asplenium australasicum</i>	None	C	None	1	3	24/07/2003
17943	Equisetopsida	Aspleniaceae	<i>Asplenium paleaceum</i>	scaly asplenium	C	None	1	1	19/03/1989
11158	Equisetopsida	Asteraceae	<i>Ageratum conyzoides</i>	billygoat weed	None	None	1	4	22/07/2010
22801	Equisetopsida	Asteraceae	<i>Ageratum conyzoides</i> subsp. <i>conyzoides</i>	None	None	None	0	1	15/02/2018

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
14051	Equisetopsida	Asteraceae	<i>Ageratum houstonianum</i>	blue billygoat weed	None	None	0	6	10/05/2019
35061	Equisetopsida	Asteraceae	<i>Apowollastonia spilanthoides</i>	None	C	None	1	2	22/03/2013
22368	Equisetopsida	Asteraceae	<i>Bidens alba</i> var. <i>radiata</i>	None	None	None	1	1	16/12/2004
7691	Equisetopsida	Asteraceae	<i>Bidens pilosa</i>	None	None	None	2	11	10/05/2019
12285	Equisetopsida	Asteraceae	<i>Blumea saxatilis</i>	None	C	None	0	1	12/11/2008
10098	Equisetopsida	Asteraceae	<i>Brachyscome basaltica</i>	None	C	None	1	1	18/04/2012
18905	Equisetopsida	Asteraceae	<i>Calotis cuneata</i>	None	C	None	1	1	01/09/1975
15568	Equisetopsida	Asteraceae	<i>Calotis lappulacea</i>	yellow burr daisy	C	None	1	1	31/03/1920
15570	Equisetopsida	Asteraceae	<i>Calyptocarpus vialis</i>	creeping cinderella weed	None	None	5	7	22/07/2010
15572	Equisetopsida	Asteraceae	<i>Camptacra barbata</i>	None	C	None	2	2	26/11/2004
9643	Equisetopsida	Asteraceae	<i>Camptacra gracilis</i>	None	C	None	2	2	18/04/2012
33042	Equisetopsida	Asteraceae	<i>Centratherum riparium</i>	None	C	None	1	1	25/05/1988
8398	Equisetopsida	Asteraceae	<i>Chrysocephalum apiculatum</i>	yellow buttons	C	None	1	1	07/02/1981
14001	Equisetopsida	Asteraceae	<i>Cirsium vulgare</i>	spear thistle	None	None	2	3	22/07/2010
29560	Equisetopsida	Asteraceae	<i>Coronidium lanuginosum</i>	None	C	None	1	1	19/02/2014
22237	Equisetopsida	Asteraceae	<i>Cyanthillium cinereum</i>	None	C	None	4	10	15/02/2018
15438	Equisetopsida	Asteraceae	<i>Eclipta prostrata</i>	white eclipta	None	None	3	3	14/12/2004
15401	Equisetopsida	Asteraceae	<i>Emilia sonchifolia</i>	None	None	None	0	5	15/02/2018
15399	Equisetopsida	Asteraceae	<i>Emilia sonchifolia</i> var. <i>javanica</i>	None	None	None	1	1	22/11/1987
15400	Equisetopsida	Asteraceae	<i>Emilia sonchifolia</i> var. <i>sonchifolia</i>	None	None	None	1	1	16/12/2004
35896	Equisetopsida	Asteraceae	<i>Erigeron bonariensis</i>	None	None	None	1	2	10/05/2019
35892	Equisetopsida	Asteraceae	<i>Eschenbachia aegyptiaca</i>	None	C	None	2	2	30/09/1865
15307	Equisetopsida	Asteraceae	<i>Gynura drymophila</i> var. <i>drymophila</i>	None	C	None	1	1	17/04/1997
41062	Equisetopsida	Asteraceae	<i>Lagenophora sublyrata</i>	None	C	None	2	2	17/04/1997
14333	Equisetopsida	Asteraceae	<i>Olearia</i>	None	None	None	0	2	11/05/1990
14331	Equisetopsida	Asteraceae	<i>Olearia canescens</i>	None	C	None	0	1	19/04/1999
15162	Equisetopsida	Asteraceae	<i>Olearia subspicata</i>	None	C	None	0	1	16/04/1999
8367	Equisetopsida	Asteraceae	<i>Ozothamnus cassinioides</i>	None	C	None	3	3	02/03/1997
10959	Equisetopsida	Asteraceae	<i>Parthenium hysterophorus</i>	parthenium weed	None	None	4	4	15/12/2004
6540	Equisetopsida	Asteraceae	<i>Peripleura hispidula</i>	None	C	None	0	3	22/07/2010
6542	Equisetopsida	Asteraceae	<i>Peripleura hispidula</i> var. <i>setosa</i>	None	C	None	1	3	22/07/2010
8407	Equisetopsida	Asteraceae	<i>Praxelis clematidea</i>	None	None	None	2	2	31/12/2016
10478	Equisetopsida	Asteraceae	<i>Pterocaulon</i>	None	None	None	0	1	06/12/2011
34421	Equisetopsida	Asteraceae	<i>Pterocaulon intermedium</i>	None	C	None	1	1	02/08/1989
15129	Equisetopsida	Asteraceae	<i>Pterocaulon redolens</i>	None	C	None	0	5	15/02/2018
20003	Equisetopsida	Asteraceae	<i>Schkuhria pinnata</i>	None	None	None	5	5	15/01/2005

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30174	Equisetopsida	Asteraceae	<i>Senecio brigalowensis</i>	None	C	None	2	2	31/12/2014
12208	Equisetopsida	Asteraceae	<i>Sigesbeckia orientalis</i>	Indian weed	C	None	1	2	22/07/2010
10443	Equisetopsida	Asteraceae	<i>Soliva anthemifolia</i>	dwarf jo jo weed	None	None	1	1	11/08/1985
15039	Equisetopsida	Asteraceae	<i>Sonchus oleraceus</i>	common sowthistle	None	None	4	7	22/07/2010
34624	Equisetopsida	Asteraceae	<i>Sphaeromorphaea australis</i>	None	C	None	1	1	23/11/1987
26362	Equisetopsida	Asteraceae	<i>Sphagnetocola trilobata</i>	None	None	None	2	2	14/12/2004
35909	Equisetopsida	Asteraceae	<i>Symphotrichum subulatum</i>	None	None	None	1	1	14/12/2004
5622	Equisetopsida	Asteraceae	<i>Synedrellopsis grisebachii</i>	None	None	None	2	2	30/04/2010
10450	Equisetopsida	Asteraceae	<i>Tithonia diversifolia</i>	Japanese sunflower	None	None	1	1	16/12/2004
14987	Equisetopsida	Asteraceae	<i>Tridax procumbens</i>	tridax daisy	None	None	2	4	10/05/2019
14957	Equisetopsida	Asteraceae	<i>Vittadinia dissecta var. hirta</i>	None	C	None	1	1	31/03/1920
2522	Equisetopsida	Asteraceae	<i>Wollastonia biflora</i>	None	C	None	0	1	12/12/1996
22235	Equisetopsida	Asteraceae	<i>Xanthium occidentale</i>	None	None	None	2	4	21/06/2018
27470	Equisetopsida	Asteraceae	<i>Xerochrysum bracteatum</i>	golden everlasting daisy	C	None	1	1	17/04/1997
21766	Equisetopsida	Asteraceae	<i>Zinnia</i>	None	C	None	0	1	02/08/1996
10411	Equisetopsida	Asteraceae	<i>Zinnia peruviana</i>	wild zinnia	None	None	0	1	22/07/2010
25558	Equisetopsida	Aytoniaceae	<i>Asterella drummondii</i>	None	C	None	1	1	24/06/2011
34188	Equisetopsida	Bignoniaceae	<i>Dolichandra unguis-cati</i>	cat's claw creeper	None	None	0	1	22/07/2010
16569	Equisetopsida	Bignoniaceae	<i>Pandorea jasminoides</i>	None	C	None	0	1	19/04/1999
16570	Equisetopsida	Bignoniaceae	<i>Pandorea pandorana</i>	wonga vine	C	None	1	16	22/07/2010
31693	Equisetopsida	Bignoniaceae	<i>Spathodea campanulata subsp. nilotica</i>	None	None	None	1	1	14/12/2004
14145	Equisetopsida	Bignoniaceae	<i>Tecoma stans</i>	tecoma	None	None	0	1	30/06/2001
17871	Equisetopsida	Blechnaceae	<i>Blechnum cartilagineum</i>	gristle fern	C	None	1	1	24/07/2003
17819	Equisetopsida	Blechnaceae	<i>Blechnum orientale</i>	None	C	None	2	2	04/07/2019
15507	Equisetopsida	Boraginaceae	<i>Cordia dichotoma</i>	None	C	None	2	4	21/06/2019
22828	Equisetopsida	Boraginaceae	<i>Cordia sinensis</i>	None	None	None	7	7	28/02/2007
11582	Equisetopsida	Boraginaceae	<i>Ehretia</i>	None	None	None	0	1	09/01/1988
8129	Equisetopsida	Boraginaceae	<i>Ehretia grahamii</i>	None	C	None	5	14	22/07/2010
15393	Equisetopsida	Boraginaceae	<i>Ehretia membranifolia</i>	weeping koda	C	None	2	10	21/06/2018
11193	Equisetopsida	Boraginaceae	<i>Heliotropium amplexicaule</i>	blue heliotrope	None	None	2	3	10/05/2019
16981	Equisetopsida	Boraginaceae	<i>Heliotropium indicum</i>	None	None	None	4	5	14/12/2004
15968	Equisetopsida	Boraginaceae	<i>Trichodesma zeylanicum</i>	None	C	None	0	1	12/12/1996
13719	Equisetopsida	Boraginaceae	<i>Trichodesma zeylanicum var. zeylanicum</i>	None	C	None	1	2	15/02/2018
10854	Equisetopsida	Brassicaceae	<i>Lepidium africanum</i>	common peppergrass	None	None	1	1	06/02/2019
12221	Equisetopsida	Brassicaceae	<i>Lepidium bonariense</i>	Argentine peppergrass	None	None	2	3	14/12/2004
11630	Equisetopsida	Brassicaceae	<i>Rapistrum rugosum</i>	None	None	None	1	1	17/08/1989

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15037	Equisetopsida	Brassicaceae	<i>Sisymbrium thellungii</i>	African turnip-weed	None	None	1	1	15/12/2004
21498	Equisetopsida	Byttneriaceae	<i>Seringia</i>	None	None	None	1	1	31/12/1865
15922	Equisetopsida	Byttneriaceae	<i>Waltheria indica</i>	None	C	None	1	1	31/03/1920
26344	Equisetopsida	Cactaceae	<i>Harrisia martinii</i>	None	None	None	0	2	10/05/2019
26360	Equisetopsida	Cactaceae	<i>Harrisia tortuosa</i>	None	None	None	1	1	29/08/2016
13842	Equisetopsida	Cactaceae	<i>Opuntia</i>	None	None	None	0	2	12/11/2008
9534	Equisetopsida	Cactaceae	<i>Opuntia streptacantha</i>	cardona pear	None	None	1	1	27/01/1983
19352	Equisetopsida	Cactaceae	<i>Opuntia stricta</i>	None	None	None	4	13	21/06/2018
9535	Equisetopsida	Cactaceae	<i>Opuntia tomentosa</i>	velvety tree pear	None	None	1	7	10/05/2019
13864	Equisetopsida	Campanulaceae	<i>Lobelia stenophylla</i>	None	C	None	1	1	21/06/1960
15918	Equisetopsida	Campanulaceae	<i>Wahlenbergia gracilis</i>	sprawling bluebell	C	None	2	2	05/07/2017
41207	Equisetopsida	Capparaceae	<i>Capparis anomala</i>	None	C	None	1	1	31/03/1920
17725	Equisetopsida	Capparaceae	<i>Capparis arborea</i>	brush caper berry	C	None	0	14	22/07/2010
13984	Equisetopsida	Capparaceae	<i>Capparis canescens</i>	None	C	None	0	4	10/05/2019
17726	Equisetopsida	Capparaceae	<i>Capparis lasiantha</i>	nipan	C	None	1	1	01/09/1975
13985	Equisetopsida	Capparaceae	<i>Capparis loranthifolia</i>	None	C	None	0	1	12/12/1996
17729	Equisetopsida	Capparaceae	<i>Capparis mitchellii</i>	None	C	None	0	1	22/07/2010
17730	Equisetopsida	Capparaceae	<i>Capparis ornans</i>	None	C	None	2	14	21/06/2018
17732	Equisetopsida	Capparaceae	<i>Capparis sarmentosa</i>	scrambling caper	C	None	0	3	19/04/1999
13988	Equisetopsida	Caricaceae	<i>Carica papaya</i>	pawpaw	None	None	1	2	22/07/2010
18012	Equisetopsida	Casuarinaceae	<i>Allocauarina littoralis</i>	None	C	None	0	2	29/04/1995
18013	Equisetopsida	Casuarinaceae	<i>Allocauarina luehmannii</i>	bull oak	C	None	1	1	01/08/1989
18014	Equisetopsida	Casuarinaceae	<i>Allocauarina torulosa</i>	None	C	None	0	11	15/02/2018
17707	Equisetopsida	Casuarinaceae	<i>Casuarina cristata</i>	belah	C	None	1	3	21/06/2018
10071	Equisetopsida	Casuarinaceae	<i>Casuarina cristata</i> x <i>Casuarina glauca</i>	None	C	None	1	1	31/03/1920
9087	Equisetopsida	Casuarinaceae	<i>Casuarina cunninghamiana</i>	None	C	None	0	4	19/04/1999
13995	Equisetopsida	Casuarinaceae	<i>Casuarina cunninghamiana</i> subsp. <i>cunninghamiana</i>	None	C	None	0	3	21/06/2019
11097	Equisetopsida	Celastraceae	<i>Celastrus subspicata</i>	large-leaved staffvine	C	None	0	1	27/03/1993
17458	Equisetopsida	Celastraceae	<i>Denhamia</i>	None	None	None	0	1	09/01/1988
34774	Equisetopsida	Celastraceae	<i>Denhamia bilocularis</i>	None	C	None	1	1	15/04/1985
34775	Equisetopsida	Celastraceae	<i>Denhamia cunninghamii</i>	None	C	None	1	8	22/07/2010
34776	Equisetopsida	Celastraceae	<i>Denhamia disperma</i>	None	C	None	1	13	10/05/2019
17455	Equisetopsida	Celastraceae	<i>Denhamia oleaster</i>	None	C	None	3	7	19/04/1999

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17456	Equisetopsida	Celastraceae	<i>Denhamia pittosporoides</i> subsp. <i>pittosporoides</i>	None	C	None	1	1	07/11/2000
22223	Equisetopsida	Celastraceae	<i>Elaeodendron australe</i>	None	C	None	0	1	19/04/1999
22222	Equisetopsida	Celastraceae	<i>Elaeodendron australe</i> var. <i>australe</i>	None	C	None	3	5	22/07/2010
22225	Equisetopsida	Celastraceae	<i>Elaeodendron australe</i> var. <i>integrifolium</i>	None	C	None	1	1	07/11/2000
22226	Equisetopsida	Celastraceae	<i>Elaeodendron melanocarpum</i>	None	C	None	4	18	21/07/2021
16964	Equisetopsida	Celastraceae	<i>Hippocratea barbata</i>	knotvine	C	None	0	1	19/04/1999
16426	Equisetopsida	Celastraceae	<i>Pleurostylia opposita</i>	None	C	None	1	2	19/04/1999
15034	Equisetopsida	Celastraceae	<i>Siphonodon australis</i>	ivorywood	C	None	1	5	10/08/2002
9172	Equisetopsida	Ceratophyllac eae	<i>Ceratophyllum demersum</i>	hornwort	C	None	1	4	19/07/2011
17912	Equisetopsida	Chenopodiace ae	<i>Atriplex muelleri</i>	lagoon saltbush	C	None	0	1	21/06/2018
17684	Equisetopsida	Chenopodiace ae	<i>Chenopodium album</i>	fat-hen	None	None	1	2	16/10/2003
11462	Equisetopsida	Chenopodiace ae	<i>Dissocarpus biflorus</i> var. <i>cephalocarpus</i>	None	C	None	1	1	18/04/2012
17322	Equisetopsida	Chenopodiace ae	<i>Einadia</i>	None	None	None	0	1	12/11/2008
17372	Equisetopsida	Chenopodiace ae	<i>Einadia nutans</i> subsp. <i>linifolia</i>	None	C	None	1	1	28/02/1997
17321	Equisetopsida	Chenopodiace ae	<i>Einadia trigonos</i> subsp. <i>stellulata</i>	None	C	None	0	1	01/10/2003
16331	Equisetopsida	Chenopodiace ae	<i>Rhagodia spinescens</i>	thorny saltbush	C	None	1	1	31/03/1920
9999	Equisetopsida	Chenopodiace ae	<i>Sclerolaena</i>	None	None	None	0	1	12/11/2008
11389	Equisetopsida	Chenopodiace ae	<i>Sclerolaena calcarata</i>	red burr	C	None	1	1	31/03/1920
16178	Equisetopsida	Chenopodiace ae	<i>Sclerolaena ramulosa</i>	None	C	None	1	1	19/03/1943
14183	Equisetopsida	Chenopodiace ae	<i>Suaeda arbusculoides</i>	None	C	None	1	1	31/05/2003
31663	Equisetopsida	Chenopodiace ae	<i>Tecticornia</i>	None	None	None	0	3	12/11/2008
31671	Equisetopsida	Chenopodiace ae	<i>Tecticornia pergranulata</i> subsp. <i>queenslandica</i>	None	C	None	1	1	31/03/1920
41554	Equisetopsida	Cleomaceae	<i>Arivela viscosa</i>	None	C	None	1	1	31/03/1920
17490	Equisetopsida	Combretaceae	<i>Dansiea elliptica</i>	None	NT	None	1	1	14/01/2015
14425	Equisetopsida	Combretaceae	<i>Macropteranthes fitzalanii</i>	None	C	None	0	4	22/07/2010
13589	Equisetopsida	Combretaceae	<i>Macropteranthes leichhardtii</i>	bonewood	C	None	0	3	16/04/1999
7667	Equisetopsida	Combretaceae	<i>Macropteranthes leiocaulis</i>	None	NT	None	20	26	06/08/2017
16028	Equisetopsida	Combretaceae	<i>Terminalia porphyrocarpa</i>	None	C	None	4	28	21/06/2018
17996	Equisetopsida	Commelinace ae	<i>Aneilema acuminatum</i>	None	C	None	1	5	19/04/1999
6161	Equisetopsida	Commelinace ae	<i>Callisia repens</i>	None	None	None	1	1	14/12/2004

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10033	Equisetopsida	Commelinaceae	<i>Commelina diffusa</i>	wandering jew	C	None	1	6	15/02/2018
14720	Equisetopsida	Commelinaceae	<i>Commelina lanceolata</i>	None	C	None	0	1	12/12/1996
16599	Equisetopsida	Commelinaceae	<i>Murdannia graminea</i>	murdannia	C	None	1	2	06/12/2011
28821	Equisetopsida	Commelinaceae	<i>Tradescantia pallida</i>	None	None	None	1	1	13/12/2004
9898	Equisetopsida	Convolvulaceae	<i>Cuscuta australis</i>	Australian dodder	C	None	1	1	14/12/2004
20586	Equisetopsida	Convolvulaceae	<i>Dichondra</i>	None	None	None	1	1	14/10/2014
36245	Equisetopsida	Convolvulaceae	<i>Distimake dissectus</i>	None	None	None	5	5	16/12/2004
36246	Equisetopsida	Convolvulaceae	<i>Distimake quinquefolius</i>	None	None	None	1	1	26/11/2004
17175	Equisetopsida	Convolvulaceae	<i>Evolvulus alsinoides var. decumbens</i>	None	C	None	1	2	15/02/2018
10496	Equisetopsida	Convolvulaceae	<i>Ipomoea aquatica</i>	None	C	None	1	1	03/06/2010
10500	Equisetopsida	Convolvulaceae	<i>Ipomoea batatas</i>	sweet potato	None	None	1	1	26/11/2004
9209	Equisetopsida	Convolvulaceae	<i>Ipomoea carnea subsp. fistulosa</i>	None	None	None	3	4	21/06/2019
16862	Equisetopsida	Convolvulaceae	<i>Ipomoea plebeia</i>	bellvine	C	None	1	2	22/07/2010
12268	Equisetopsida	Convolvulaceae	<i>Ipomoea polymorpha</i>	None	C	None	1	1	05/06/1983
34730	Equisetopsida	Convolvulaceae	<i>Ipomoea violacea</i>	None	C	None	0	1	22/07/2010
10503	Equisetopsida	Convolvulaceae	<i>Jacquemontia</i>	None	None	None	1	1	31/03/1920
16395	Equisetopsida	Convolvulaceae	<i>Polymeria calycina</i>	pink bindweed	C	None	2	3	06/02/2019
16398	Equisetopsida	Convolvulaceae	<i>Polymeria pusilla</i>	None	C	None	1	1	29/07/1974
31606	Equisetopsida	Convolvulaceae	<i>Polymeria sp. (Rockhampton E.R.Anderson 3944)</i>	None	C	None	1	1	26/03/1985
40968	Equisetopsida	Cornaceae	<i>Alangium polyosmoides subsp. tomentosum</i>	None	C	None	0	2	19/04/1999
21934	Equisetopsida	Crassulaceae	<i>Bryophyllum delagoense</i>	None	None	None	4	5	21/06/2018
31058	Equisetopsida	Crassulaceae	<i>Bryophyllum x houghtonii</i>	None	None	None	1	1	31/10/1968
9267	Equisetopsida	Crassulaceae	<i>Crassula sieberiana</i>	None	C	None	1	1	02/03/1997
10413	Equisetopsida	Cucurbitaceae	<i>Coccinia grandis</i>	None	None	None	1	1	11/12/2007
9896	Equisetopsida	Cucurbitaceae	<i>Cucurbita pepo</i>	None	None	None	1	1	16/12/2004
18824	Equisetopsida	Cucurbitaceae	<i>Diplocyclos palmatus</i>	None	C	None	1	7	22/07/2010
10632	Equisetopsida	Cucurbitaceae	<i>Neoalsomitra capricornica</i>	None	C	None	1	1	31/03/1920
41609	Equisetopsida	Cyatheaceae	<i>Alsophila australis</i>	None	C	None	2	2	04/09/1998
8445	Equisetopsida	Cycadaceae	<i>Cycas megacarpa</i>	None	E	E	8	13	30/11/2021

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8437	Equisetopsida	Cycadaceae	<i>Cycas ophiolitica</i>	Marlborough blue	E	E	12	12	28/10/2016
14670	Equisetopsida	Cyperaceae	<i>Cyperus</i>	None	None	None	0	2	06/12/2011
11059	Equisetopsida	Cyperaceae	<i>Cyperus alopecuroides</i>	None	C	None	3	3	07/10/1994
14659	Equisetopsida	Cyperaceae	<i>Cyperus compressus</i>	None	None	None	1	1	05/05/1981
11060	Equisetopsida	Cyperaceae	<i>Cyperus concinnus</i>	None	C	None	1	1	02/08/1989
17515	Equisetopsida	Cyperaceae	<i>Cyperus difformis</i>	rice sedge	C	None	2	4	10/05/2019
11952	Equisetopsida	Cyperaceae	<i>Cyperus digitatus</i>	None	C	None	1	1	14/12/2004
17516	Equisetopsida	Cyperaceae	<i>Cyperus enervis</i>	None	C	None	0	1	29/04/1995
13966	Equisetopsida	Cyperaceae	<i>Cyperus flaccidus</i>	None	C	None	0	2	15/02/2018
17519	Equisetopsida	Cyperaceae	<i>Cyperus fulvus</i>	None	C	None	2	2	22/11/1987
17521	Equisetopsida	Cyperaceae	<i>Cyperus gracilis</i>	None	C	None	0	4	15/02/2018
14657	Equisetopsida	Cyperaceae	<i>Cyperus involucratus</i>	None	None	None	1	3	21/06/2019
17524	Equisetopsida	Cyperaceae	<i>Cyperus iria</i>	None	C	None	1	1	06/05/1981
17473	Equisetopsida	Cyperaceae	<i>Cyperus perangustus</i>	None	C	None	2	3	22/07/2010
11453	Equisetopsida	Cyperaceae	<i>Cyperus platystylis</i>	None	C	None	1	1	13/12/1978
12420	Equisetopsida	Cyperaceae	<i>Cyperus polystachyos</i>	None	C	None	0	1	15/02/2018
17478	Equisetopsida	Cyperaceae	<i>Cyperus rotundus</i>	nutgrass	None	None	1	1	13/11/1972
14667	Equisetopsida	Cyperaceae	<i>Cyperus scariosus</i>	None	C	None	1	1	01/11/2010
11954	Equisetopsida	Cyperaceae	<i>Cyperus sesquiflorus</i>	None	None	None	2	2	05/05/1981
17479	Equisetopsida	Cyperaceae	<i>Cyperus sphaeroideus</i>	None	C	None	1	1	05/05/1981
9816	Equisetopsida	Cyperaceae	<i>Eleocharis dietrichiana</i>	None	C	None	1	1	03/06/2010
14579	Equisetopsida	Cyperaceae	<i>Eleocharis dulcis</i>	None	C	None	0	1	13/11/2008
9376	Equisetopsida	Cyperaceae	<i>Fimbristylis aestivalis</i>	None	C	None	1	1	01/11/2010
17107	Equisetopsida	Cyperaceae	<i>Fimbristylis dichotoma</i>	common fringe-rush	C	None	2	4	22/07/2010
17108	Equisetopsida	Cyperaceae	<i>Fimbristylis ferruginea</i>	None	C	None	2	3	06/02/2020
11040	Equisetopsida	Cyperaceae	<i>Fimbristylis littoralis</i>	None	C	None	1	1	06/05/1981
17111	Equisetopsida	Cyperaceae	<i>Fimbristylis polytrichoides</i>	None	C	None	0	1	12/11/2008
17130	Equisetopsida	Cyperaceae	<i>Fuirena ciliaris</i>	None	C	None	1	1	02/08/1989
17078	Equisetopsida	Cyperaceae	<i>Gahnia aspera</i>	None	C	None	1	19	15/02/2018
9381	Equisetopsida	Cyperaceae	<i>Lepidosperma laterale</i>	None	C	None	1	2	04/09/1998
34090	Equisetopsida	Cyperaceae	<i>Schoenoplectus subulatus</i>	None	C	None	5	6	12/11/2008
14228	Equisetopsida	Cyperaceae	<i>Scleria mackaviensis</i>	None	C	None	2	6	22/07/2010
17497	Equisetopsida	Davalliaceae	<i>Davallia pyxidata</i>	None	C	None	2	4	24/07/2003
16965	Equisetopsida	Dennstaedtiaceae	<i>Histiopteris incisa</i>	bats-wing fern	C	None	1	1	04/07/2019
16340	Equisetopsida	Dennstaedtiaceae	<i>Pteridium esculentum</i>	common bracken	C	None	1	3	24/07/2003
17547	Equisetopsida	Dicksoniaceae	<i>Calochlaena dubia</i>	None	C	None	1	2	24/07/2003
17438	Equisetopsida	Dioscoreaceae	<i>Dioscorea transversa</i>	native yam	C	None	0	17	21/06/2018
32598	Equisetopsida	Dracaenaceae	<i>Sansevieria trifasciata</i> var. <i>trifasciata</i>	None	None	None	2	2	13/12/2004

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14435	Equisetopsida	Dryopteridaceae	<i>Lastreopsis tenera</i>	None	C	None	2	2	04/07/2019
17439	Equisetopsida	Ebenaceae	<i>Diospyros australis</i>	black plum	C	None	2	14	23/02/2014
17442	Equisetopsida	Ebenaceae	<i>Diospyros fasciculosa</i>	grey ebony	C	None	0	4	19/04/1999
17443	Equisetopsida	Ebenaceae	<i>Diospyros geminata</i>	scaly ebony	C	None	3	36	21/06/2018
17445	Equisetopsida	Ebenaceae	<i>Diospyros humilis</i>	small-leaved ebony	C	None	8	16	15/02/2018
17327	Equisetopsida	Elaeocarpaceae	<i>Elaeocarpus eumundi</i>	Eumundi quandong	C	None	1	1	12/08/1999
14572	Equisetopsida	Elaeocarpaceae	<i>Elaeocarpus obovatus</i>	blueberry ash	C	None	0	4	19/04/1999
41455	Equisetopsida	Elaeocarpaceae	<i>Elaeocarpus obovatus</i> subsp. <i>obovatus</i>	None	C	None	3	3	23/02/2014
24665	Equisetopsida	Entodontaceae	<i>Entodon mackaviensis</i>	None	C	None	1	1	01/07/1993
18111	Equisetopsida	Ericaceae	<i>Acrotriche aggregata</i>	red cluster heath	C	None	1	2	29/04/1995
16641	Equisetopsida	Ericaceae	<i>Monotoca scoparia</i>	prickly broom heath	C	None	0	1	29/04/1995
17288	Equisetopsida	Erythroxylaceae	<i>Erythroxylum australe</i>	cocaine tree	C	None	0	10	19/04/1999
6349	Equisetopsida	Erythroxylaceae	<i>Erythroxylum</i> sp. (<i>Splityard Creek L.Pedley 5360</i>)	None	C	None	2	7	22/07/2010
11503	Equisetopsida	Euphorbiaceae	<i>Acalypha capillipes</i>	small-leaved acalypha	C	None	0	5	22/07/2010
18091	Equisetopsida	Euphorbiaceae	<i>Acalypha eremorum</i>	soft acalypha	C	None	3	25	21/06/2018
18050	Equisetopsida	Euphorbiaceae	<i>Alchornea ilicifolia</i>	native holly	C	None	2	15	22/07/2010
9348	Equisetopsida	Euphorbiaceae	<i>Alchornea thozetiana</i>	None	C	None	1	2	21/06/2018
14825	Equisetopsida	Euphorbiaceae	<i>Baloghia inophylla</i>	scrub bloodwood	C	None	1	11	22/07/2010
17613	Equisetopsida	Euphorbiaceae	<i>Claoxylon tenerifolium</i>	Queensland brittlewood	C	None	0	4	19/04/1999
13956	Equisetopsida	Euphorbiaceae	<i>Croton acronychioides</i>	thick-leaved croton	C	None	3	15	22/07/2010
17561	Equisetopsida	Euphorbiaceae	<i>Croton insularis</i>	Queensland cascarilla	C	None	2	10	22/07/2010
17562	Equisetopsida	Euphorbiaceae	<i>Croton phebaloides</i>	narrow-leaved croton	C	None	1	13	21/06/2018
11494	Equisetopsida	Euphorbiaceae	<i>Croton stigmatosus</i>	white croton	C	None	0	2	19/04/1999
17160	Equisetopsida	Euphorbiaceae	<i>Euphorbia cyathophora</i>	dwarf poinsettia	None	None	5	8	21/06/2019
17162	Equisetopsida	Euphorbiaceae	<i>Euphorbia heterophylla</i>	None	None	None	3	3	14/12/2004
5516	Equisetopsida	Euphorbiaceae	<i>Euphorbia hirta</i>	None	None	None	2	2	15/12/2004
4734	Equisetopsida	Euphorbiaceae	<i>Euphorbia hyssopifolia</i>	None	None	None	2	2	15/12/2004

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34702	Equisetopsida	Euphorbiaceae	<i>Euphorbia lacinioloba</i>	None	C	None	1	1	30/04/2010
9904	Equisetopsida	Euphorbiaceae	<i>Euphorbia tannensis</i>	None	C	None	0	3	22/07/2010
17166	Equisetopsida	Euphorbiaceae	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	None	C	None	1	1	16/12/1997
36308	Equisetopsida	Euphorbiaceae	<i>Euphorbia tithymaloides</i> subsp. <i>smallii</i>	None	None	None	1	1	09/01/1988
17178	Equisetopsida	Euphorbiaceae	<i>Excoecaria agallocha</i>	milky mangrove	C	None	1	3	13/11/2008
17179	Equisetopsida	Euphorbiaceae	<i>Excoecaria dallachyana</i>	scrub poison tree	C	None	4	16	22/07/2010
5284	Equisetopsida	Euphorbiaceae	<i>Homalanthus populifolius</i>	None	C	None	2	3	17/04/1997
16753	Equisetopsida	Euphorbiaceae	<i>Macaranga tanarius</i>	macaranga	C	None	0	3	19/04/1999
11406	Equisetopsida	Euphorbiaceae	<i>Mallotus claoxyloides</i>	green kamala	C	None	6	25	22/07/2010
8257	Equisetopsida	Euphorbiaceae	<i>Mallotus ficifolius</i>	None	C	None	2	2	13/12/2004
16715	Equisetopsida	Euphorbiaceae	<i>Mallotus philippensis</i>	red kamala	C	None	1	31	21/06/2018
11313	Equisetopsida	Euphorbiaceae	<i>Manihot esculenta</i>	None	None	None	1	1	13/12/2004
11252	Equisetopsida	Euphorbiaceae	<i>Ricinocarpus ledifolius</i>	scrub wedding bush	C	None	0	1	19/04/1999
11288	Equisetopsida	Euphorbiaceae	<i>Ricinus communis</i>	castor oil bush	None	None	3	5	21/06/2019
11246	Equisetopsida	Euphorbiaceae	<i>Tragia novae-hollandiae</i>	stinging-vine	C	None	0	2	19/04/1999
24698	Equisetopsida	Fissidentaceae	<i>Fissidens asplenioides</i>	None	C	None	1	1	24/06/2011
17118	Equisetopsida	Flagellariaceae	<i>Flagellaria indica</i>	whip vine	C	None	0	1	30/06/1994
25615	Equisetopsida	Frullaniaceae	<i>Frullania</i>	None	None	None	1	1	24/06/2011
29264	Equisetopsida	Funariaceae	<i>Entosthodon apophysatus</i>	None	C	None	1	1	24/06/2011
10944	Equisetopsida	Gleicheniaceae	<i>Sticheris flabellatus</i> var. <i>flabellatus</i>	None	C	None	2	2	04/09/1998
11438	Equisetopsida	Goodeniaceae	<i>Goodenia</i>	None	None	None	0	1	12/12/1996
17060	Equisetopsida	Goodeniaceae	<i>Goodenia glabra</i>	None	C	None	1	2	22/07/2010
41740	Equisetopsida	Goodeniaceae	<i>Goodenia mystrophylla</i>	None	C	None	1	1	10/07/2010
17065	Equisetopsida	Goodeniaceae	<i>Goodenia rotundifolia</i>	None	C	None	0	3	06/12/2011
16608	Equisetopsida	Haloragaceae	<i>Myriophyllum verrucosum</i>	water milfoil	C	None	1	1	05/04/1975
30968	Equisetopsida	Heliconiaceae	<i>Heliconia</i>	None	None	None	1	1	14/12/2004
12249	Equisetopsida	Hemerocallidaceae	<i>Dianella</i>	None	None	None	0	11	22/07/2010
13239	Equisetopsida	Hemerocallidaceae	<i>Dianella brevipedunculata</i>	None	C	None	0	1	22/07/2010
17464	Equisetopsida	Hemerocallidaceae	<i>Dianella caerulea</i>	None	C	None	0	10	15/02/2018

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14594	Equisetopsida	Hemerocallidaceae	<i>Dianella revoluta</i>	None	C	None	0	1	22/07/2010
15350	Equisetopsida	Hemerocallidaceae	<i>Geitonoplesium cymosum</i>	scrambling lily	C	None	0	14	19/04/1999
40443	Equisetopsida	Hemerocallidaceae	<i>Geitonoplesium cymosum forma album</i>	None	C	None	0	2	21/06/2018
15308	Equisetopsida	Hernandiaceae	<i>Gyrocarpus americanus</i>	None	C	None	0	6	19/04/1999
8394	Equisetopsida	Hernandiaceae	<i>Gyrocarpus americanus subsp. americanus</i>	None	C	None	2	6	22/07/2010
13625	Equisetopsida	Hernandiaceae	<i>Hernandia bivalvis</i>	cudgerie	NT	None	4	9	22/07/2010
12173	Equisetopsida	Hydrocharitaceae	<i>Blyxa</i>	None	None	None	0	1	19/07/2011
14509	Equisetopsida	Hydrocharitaceae	<i>Hydrilla verticillata</i>	hydrilla	C	None	1	1	10/06/2010
3021	Equisetopsida	Hydrocharitaceae	<i>Ottelia ovalifolia subsp. ovalifolia</i>	None	C	None	1	1	13/11/2008
18351	Equisetopsida	Hydrocharitaceae	<i>Vallisneria nana</i>	None	C	None	1	1	10/06/2010
9363	Equisetopsida	Johnsoniaceae	<i>Caesia parviflora</i>	None	C	None	1	1	22/09/1997
15974	Equisetopsida	Johnsoniaceae	<i>Tricoryne elatior</i>	yellow autumn lily	C	None	1	1	23/11/1987
13896	Equisetopsida	Juncaceae	<i>Juncus</i>	None	None	None	0	1	06/12/2011
13895	Equisetopsida	Juncaceae	<i>Juncus polyanthemus</i>	None	C	None	2	2	09/03/2006
15667	Equisetopsida	Lamiaceae	<i>Ajuga australis</i>	Australian bugle	C	None	1	3	12/12/1996
10005	Equisetopsida	Lamiaceae	<i>Anisomeles</i>	None	None	None	0	2	22/07/2010
35720	Equisetopsida	Lamiaceae	<i>Anisomeles moschata</i>	None	C	None	2	2	18/05/2021
15618	Equisetopsida	Lamiaceae	<i>Basilicum polystachyon</i>	None	C	None	1	1	02/06/2010
12453	Equisetopsida	Lamiaceae	<i>Callicarpa pedunculata</i>	velvet leaf	C	None	2	4	30/06/1994
9802	Equisetopsida	Lamiaceae	<i>Callicarpa thozetii</i>	None	E	None	3	3	16/01/2013
17628	Equisetopsida	Lamiaceae	<i>Clerodendrum floribundum</i>	None	C	None	2	16	15/02/2018
12462	Equisetopsida	Lamiaceae	<i>Clerodendrum tomentosum</i>	None	C	None	0	2	21/06/2018
41035	Equisetopsida	Lamiaceae	<i>Coleus australis</i>	None	C	None	3	5	19/04/1999
41023	Equisetopsida	Lamiaceae	<i>Coleus graveolens</i>	None	C	None	0	4	19/04/1999
17100	Equisetopsida	Lamiaceae	<i>Glossocarya hemiderma</i>	None	C	None	5	23	22/07/2010
29574	Equisetopsida	Lamiaceae	<i>Gmelina philippensis</i>	None	None	None	2	2	01/12/2005
11835	Equisetopsida	Lamiaceae	<i>Leonotis nepetifolia</i>	None	None	None	1	3	21/06/2018
18679	Equisetopsida	Lamiaceae	<i>Leucas lavandulifolia</i>	None	None	None	2	3	14/12/2004
18722	Equisetopsida	Lamiaceae	<i>Ocimum americanum</i>	None	None	None	3	4	14/12/2004
15211	Equisetopsida	Lamiaceae	<i>Ocimum basilicum</i>	None	None	None	1	1	22/03/2013
14316	Equisetopsida	Lamiaceae	<i>Pityrodia salviifolia</i>	pityrodia	C	None	1	2	29/04/1995
15158	Equisetopsida	Lamiaceae	<i>Plectranthus</i>	None	None	None	0	1	11/05/1990
11773	Equisetopsida	Lamiaceae	<i>Stachys arvensis</i>	stagger weed	None	None	1	1	30/08/2017
36200	Equisetopsida	Lamiaceae	<i>Teucrium junceum</i>	None	C	None	1	3	22/07/2010

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15961	Equisetopsida	Lamiaceae	<i>Vitex acuminata</i>	None	C	None	0	1	19/04/1999
15964	Equisetopsida	Lamiaceae	<i>Vitex melicopea</i>	None	C	None	0	1	22/07/2010
11855	Equisetopsida	Lauraceae	<i>Cassytha</i>	None	None	None	0	1	19/04/1999
17703	Equisetopsida	Lauraceae	<i>Cassytha filiformis</i>	dodder laurel	C	None	0	4	22/07/2010
17705	Equisetopsida	Lauraceae	<i>Cassytha pubescens</i>	downy devil's twine	C	None	0	3	15/02/2018
11859	Equisetopsida	Lauraceae	<i>Cinnamomum camphora</i>	camphor laurel	None	None	1	1	14/12/2004
17543	Equisetopsida	Lauraceae	<i>Cryptocarya</i>	None	None	None	0	1	19/04/1999
17570	Equisetopsida	Lauraceae	<i>Cryptocarya bidwillii</i>	yellow laurel	C	None	1	3	12/12/1996
17580	Equisetopsida	Lauraceae	<i>Cryptocarya hypospodia</i>	north Queensland purple laurel	C	None	0	4	12/12/1996
17541	Equisetopsida	Lauraceae	<i>Cryptocarya triplinervis</i>	None	C	None	0	12	19/04/1999
17539	Equisetopsida	Lauraceae	<i>Cryptocarya triplinervis</i> var. <i>pubens</i>	None	C	None	1	1	31/05/1971
9129	Equisetopsida	Lauraceae	<i>Cryptocarya triplinervis</i> var. <i>triplinervis</i>	None	C	None	1	2	21/06/2018
17303	Equisetopsida	Lauraceae	<i>Endiandra discolor</i>	domatia tree	C	None	1	1	12/08/1999
16758	Equisetopsida	Lauraceae	<i>Litsea fawcettiana</i>	None	C	None	1	1	20/07/1986
16761	Equisetopsida	Lauraceae	<i>Litsea reticulata</i>	None	C	None	0	2	28/05/1993
11794	Equisetopsida	Lauraceae	<i>Neolitsea brassii</i>	None	C	None	1	6	12/12/1996
21939	Equisetopsida	Laxmanniaceae	<i>Cordyline</i>	None	None	None	0	2	12/12/1996
11707	Equisetopsida	Laxmanniaceae	<i>Cordyline manners-suttoniae</i>	None	C	None	1	1	31/03/1995
11708	Equisetopsida	Laxmanniaceae	<i>Cordyline murchisoniae</i>	None	C	None	2	8	19/04/1999
15339	Equisetopsida	Laxmanniaceae	<i>Eustrephus latifolius</i>	wombat berry	C	None	0	16	06/12/2011
40458	Equisetopsida	Laxmanniaceae	<i>Eustrephus latifolius</i> subforma <i>fimbriatus</i>	None	C	None	0	2	21/06/2018
12409	Equisetopsida	Laxmanniaceae	<i>Lomandra</i>	None	None	None	0	4	06/12/2011
14415	Equisetopsida	Laxmanniaceae	<i>Lomandra confertifolia</i> subsp. <i>pallida</i>	None	C	None	1	4	22/07/2010
16776	Equisetopsida	Laxmanniaceae	<i>Lomandra longifolia</i>	None	C	None	1	9	21/06/2018
18792	Equisetopsida	Laxmanniaceae	<i>Lomandra multiflora</i>	None	C	None	0	1	22/07/2010
16777	Equisetopsida	Laxmanniaceae	<i>Lomandra multiflora</i> subsp. <i>multiflora</i>	None	C	None	1	4	15/02/2018
15149	Equisetopsida	Lecythidaceae	<i>Planchonia careya</i>	cockatoo apple	C	None	0	3	15/02/2018
15827	Equisetopsida	Leguminosae	<i>Acacia aulacocarpa</i>	None	C	None	0	11	15/02/2018
15790	Equisetopsida	Leguminosae	<i>Acacia concurrens</i>	None	C	None	0	1	06/12/2011
15796	Equisetopsida	Leguminosae	<i>Acacia decora</i>	pretty wattle	C	None	2	9	21/06/2018
21915	Equisetopsida	Leguminosae	<i>Acacia disparrima</i> subsp. <i>disparrima</i>	None	C	None	0	9	10/05/2019
15798	Equisetopsida	Leguminosae	<i>Acacia excelsa</i>	None	C	None	0	1	22/07/2010

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14065	Equisetopsida	Leguminosae	<i>Acacia excelsa</i> subsp. <i>excelsa</i>	None	C	None	0	1	06/12/2011
15799	Equisetopsida	Leguminosae	<i>Acacia falcata</i>	sickle wattle	C	None	0	1	06/12/2011
15744	Equisetopsida	Leguminosae	<i>Acacia fasciculifera</i>	scaly bark	C	None	3	27	21/06/2018
15746	Equisetopsida	Leguminosae	<i>Acacia flavescens</i>	toothed wattle	C	None	0	1	15/02/2018
15752	Equisetopsida	Leguminosae	<i>Acacia harpophylla</i>	brigalow	C	None	3	4	21/06/2018
15755	Equisetopsida	Leguminosae	<i>Acacia holosericea</i>	None	C	None	0	1	21/06/2018
15765	Equisetopsida	Leguminosae	<i>Acacia leiocalyx</i>	None	C	None	0	3	15/02/2018
14066	Equisetopsida	Leguminosae	<i>Acacia leiocalyx</i> subsp. <i>leiocalyx</i>	None	C	None	2	4	22/07/2010
15766	Equisetopsida	Leguminosae	<i>Acacia leptocarpa</i>	north coast wattle	C	None	0	1	11/05/1990
15772	Equisetopsida	Leguminosae	<i>Acacia maidenii</i>	Maiden's wattle	C	None	0	13	10/05/2019
15720	Equisetopsida	Leguminosae	<i>Acacia melanoxylon</i>	blackwood	C	None	0	1	19/04/1999
13698	Equisetopsida	Leguminosae	<i>Acacia omalophylla</i>	None	C	None	1	1	11/09/1988
14944	Equisetopsida	Leguminosae	<i>Acacia pendula</i>	myall	C	None	0	1	21/06/2018
15734	Equisetopsida	Leguminosae	<i>Acacia penninervis</i> var. <i>longiracemosa</i>	None	C	None	0	1	29/04/1995
15694	Equisetopsida	Leguminosae	<i>Acacia salicina</i>	doolan	C	None	3	8	21/06/2019
32294	Equisetopsida	Leguminosae	<i>Acacia</i> sp. (<i>Canoona</i> S.T.Blake 15321)	None	C	None	1	1	19/07/1970
15663	Equisetopsida	Leguminosae	<i>Aeschynomene brevifolia</i>	None	C	None	2	2	25/01/1994
15664	Equisetopsida	Leguminosae	<i>Aeschynomene indica</i>	budda pea	C	None	1	1	14/12/2004
11510	Equisetopsida	Leguminosae	<i>Albizia lebbek</i>	Indian siris	C	None	8	12	21/06/2019
11516	Equisetopsida	Leguminosae	<i>Archidendropsis thozetiana</i>	None	C	None	1	21	22/07/2010
15609	Equisetopsida	Leguminosae	<i>Austrostenisia blackii</i>	bloodvine	C	None	0	19	21/06/2018
18175	Equisetopsida	Leguminosae	<i>Austrostenisia blackii</i> var. <i>blackii</i>	None	C	None	2	2	09/11/1985
15614	Equisetopsida	Leguminosae	<i>Barklya syringifolia</i>	golden shower tree	C	None	2	18	22/07/2010
15620	Equisetopsida	Leguminosae	<i>Bauhinia</i>	None	None	None	0	1	13/11/2008
10918	Equisetopsida	Leguminosae	<i>Bauhinia variegata</i>	None	None	None	4	4	13/12/2004
15556	Equisetopsida	Leguminosae	<i>Cajanus reticulatus</i> var. <i>reticulatus</i>	None	C	None	1	2	15/02/2018
15536	Equisetopsida	Leguminosae	<i>Cassia</i>	None	None	None	0	1	06/12/2011
21988	Equisetopsida	Leguminosae	<i>Cassia brewsteri</i>	None	C	None	0	1	22/07/2010
15579	Equisetopsida	Leguminosae	<i>Cassia fistula</i>	Indian laburnum	None	None	1	1	15/12/2004
8173	Equisetopsida	Leguminosae	<i>Chamaecrista absus</i> var. <i>absus</i>	None	C	None	1	1	25/01/1994
7175	Equisetopsida	Leguminosae	<i>Chamaecrista mimosoides</i>	dwarf cassia	C	None	0	1	06/12/2011
7678	Equisetopsida	Leguminosae	<i>Chamaecrista nomame</i> var. <i>nomame</i>	None	C	None	1	1	25/01/1994
15501	Equisetopsida	Leguminosae	<i>Clitoria ternatea</i>	butterfly pea	None	None	5	5	23/02/2014
15478	Equisetopsida	Leguminosae	<i>Crotalaria</i>	None	None	None	0	2	06/12/2011
14693	Equisetopsida	Leguminosae	<i>Crotalaria brevis</i>	None	C	None	0	1	22/07/2010

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15517	Equisetopsida	Leguminosae	<i>Crotalaria calycina</i>	None	C	None	1	1	05/06/1983
15521	Equisetopsida	Leguminosae	<i>Crotalaria goreensis</i>	gambia pea	None	None	0	1	15/02/2018
14684	Equisetopsida	Leguminosae	<i>Crotalaria incana</i> subsp. <i>incana</i>	None	None	None	2	3	13/12/2004
14685	Equisetopsida	Leguminosae	<i>Crotalaria incana</i> subsp. <i>purpurascens</i>	None	None	None	1	1	14/12/2004
15468	Equisetopsida	Leguminosae	<i>Crotalaria lanceolata</i> subsp. <i>lanceolata</i>	None	None	None	2	3	10/05/2019
26438	Equisetopsida	Leguminosae	<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	None	C	None	1	1	22/03/2013
15470	Equisetopsida	Leguminosae	<i>Crotalaria mitchellii</i> subsp. <i>mitchellii</i>	None	C	None	1	1	31/03/1920
15471	Equisetopsida	Leguminosae	<i>Crotalaria montana</i>	None	C	None	0	2	22/07/2010
27173	Equisetopsida	Leguminosae	<i>Crotalaria montana</i> var. <i>angustifolia</i>	None	C	None	1	1	22/11/1987
5917	Equisetopsida	Leguminosae	<i>Crotalaria pallida</i> var. <i>obovata</i>	None	None	None	4	4	16/12/2004
14697	Equisetopsida	Leguminosae	<i>Crotalaria verrucosa</i>	None	C	None	1	1	11/05/1989
5836	Equisetopsida	Leguminosae	<i>Cullen australasicum</i>	None	C	None	0	1	01/10/2003
9165	Equisetopsida	Leguminosae	<i>Delonix regia</i>	poinciana	None	None	2	2	13/12/2004
31108	Equisetopsida	Leguminosae	<i>Desmanthus</i> <i>pernambucanus</i>	None	None	None	5	5	13/02/2019
15462	Equisetopsida	Leguminosae	<i>Desmodium</i>	None	None	None	0	1	12/12/1996
14642	Equisetopsida	Leguminosae	<i>Desmodium gangeticum</i>	None	C	None	1	2	22/07/2010
15457	Equisetopsida	Leguminosae	<i>Desmodium gunnii</i>	None	C	None	1	1	17/04/1997
15458	Equisetopsida	Leguminosae	<i>Desmodium intortum</i>	None	None	None	0	1	15/02/2018
10279	Equisetopsida	Leguminosae	<i>Desmodium macrocarpum</i>	None	C	None	1	1	20/02/2009
9271	Equisetopsida	Leguminosae	<i>Desmodium muelleri</i>	None	C	None	1	1	31/03/1996
2870	Equisetopsida	Leguminosae	<i>Desmodium pullenii</i>	None	C	None	1	1	17/04/1997
15460	Equisetopsida	Leguminosae	<i>Desmodium rhytidophyllum</i>	None	C	None	0	6	22/07/2010
13037	Equisetopsida	Leguminosae	<i>Desmodium tortuosum</i>	Florida beggar-weed	None	None	1	1	26/11/2004
15461	Equisetopsida	Leguminosae	<i>Desmodium triflorum</i>	None	None	None	0	2	15/02/2018
13935	Equisetopsida	Leguminosae	<i>Desmodium varians</i>	slender tick trefoil	C	None	1	2	22/07/2010
15334	Equisetopsida	Leguminosae	<i>Erythrina vespertilio</i>	None	C	None	0	5	15/02/2018
32528	Equisetopsida	Leguminosae	<i>Erythrina vespertilio</i> subsp. <i>vespertilio</i>	None	C	None	0	1	21/06/2018
13000	Equisetopsida	Leguminosae	<i>Flemingia parviflora</i>	flemingia	C	None	0	2	15/02/2018
14524	Equisetopsida	Leguminosae	<i>Glycine</i>	None	None	None	0	1	06/12/2011
15355	Equisetopsida	Leguminosae	<i>Glycine microphylla</i>	None	C	None	1	1	22/11/1987
15356	Equisetopsida	Leguminosae	<i>Glycine tabacina</i>	glycine pea	C	None	0	5	22/07/2010
9451	Equisetopsida	Leguminosae	<i>Haematoxylum</i> <i>campechianum</i>	logwood tree	None	None	3	3	13/12/2004
15309	Equisetopsida	Leguminosae	<i>Hardenbergia violacea</i>	None	C	None	1	5	15/02/2018
15327	Equisetopsida	Leguminosae	<i>Hovea longipes</i>	brush hovea	C	None	1	4	22/07/2010
15291	Equisetopsida	Leguminosae	<i>Indigofera australis</i>	None	C	None	0	1	22/07/2010

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18672	Equisetopsida	Leguminosae	<i>Indigofera australis subsp. australis</i>	None	C	None	0	1	15/02/2018
15292	Equisetopsida	Leguminosae	<i>Indigofera colutea</i>	sticky indigo	C	None	2	2	10/03/2020
15294	Equisetopsida	Leguminosae	<i>Indigofera hirsuta</i>	hairy indigo	C	None	1	2	15/02/2018
15295	Equisetopsida	Leguminosae	<i>Indigofera linifolia</i>	None	C	None	0	2	10/05/2019
15296	Equisetopsida	Leguminosae	<i>Indigofera linnaei</i>	Birdsville indigo	C	None	1	2	15/02/2018
6803	Equisetopsida	Leguminosae	<i>Indigofera polygaloides</i>	None	C	None	1	1	29/02/2012
15297	Equisetopsida	Leguminosae	<i>Indigofera pratensis</i>	None	C	None	1	2	15/02/2018
12967	Equisetopsida	Leguminosae	<i>Indigofera suffruticosa</i>	None	None	None	1	1	18/02/1996
15299	Equisetopsida	Leguminosae	<i>Indigofera tinctoria</i>	None	None	None	3	4	14/12/2004
15260	Equisetopsida	Leguminosae	<i>Jacksonia scoparia</i>	None	C	None	0	4	19/04/1999
14445	Equisetopsida	Leguminosae	<i>Leucaena leucocephala</i>	None	None	None	0	3	21/06/2019
6280	Equisetopsida	Leguminosae	<i>Leucaena leucocephala subsp. leucocephala</i>	None	None	None	10	11	14/12/2004
15229	Equisetopsida	Leguminosae	<i>Lotus australis</i>	Australian trefoil	C	None	1	1	20/11/1989
18737	Equisetopsida	Leguminosae	<i>Lysiphyllum</i>	None	None	None	0	1	10/02/2009
15234	Equisetopsida	Leguminosae	<i>Lysiphyllum hookeri</i>	Queensland ebony	C	None	1	3	21/06/2018
15235	Equisetopsida	Leguminosae	<i>Macroptilium atropurpureum</i>	siratro	None	None	1	10	21/06/2019
14426	Equisetopsida	Leguminosae	<i>Macroptilium lathyroides</i>	None	None	None	2	4	18/04/2012
18762	Equisetopsida	Leguminosae	<i>Macrotyloma axillare var. axillare</i>	None	None	None	1	1	13/12/2004
9873	Equisetopsida	Leguminosae	<i>Medicago polymorpha</i>	burr medic	None	None	0	1	15/02/2018
22928	Equisetopsida	Leguminosae	<i>Medicago sativa subsp. sativa</i>	None	None	None	1	1	26/11/2004
36129	Equisetopsida	Leguminosae	<i>Mezoneuron scortechinii</i>	None	C	None	0	6	19/04/1999
10860	Equisetopsida	Leguminosae	<i>Mimosa pudica</i>	None	None	None	0	1	15/02/2018
12952	Equisetopsida	Leguminosae	<i>Neonotonia wightii var. wightii</i>	None	None	None	1	1	26/11/2004
14370	Equisetopsida	Leguminosae	<i>Neptunia gracilis forma gracilis</i>	None	C	None	2	3	22/07/2010
15205	Equisetopsida	Leguminosae	<i>Neptunia major</i>	None	C	None	2	2	18/04/2012
9083	Equisetopsida	Leguminosae	<i>Pararchidendron pruinosum</i>	None	C	None	0	3	21/07/1994
12761	Equisetopsida	Leguminosae	<i>Parkinsonia aculeata</i>	parkinsonia	None	None	5	7	21/06/2018
12902	Equisetopsida	Leguminosae	<i>Peltophorum pterocarpum</i>	yellow poinciana	None	None	4	6	21/06/2018
6007	Equisetopsida	Leguminosae	<i>Podolobium aciculiferum</i>	None	C	None	2	3	29/08/1999
12909	Equisetopsida	Leguminosae	<i>Prosopis</i>	mesquite	None	None	1	1	31/03/2006
15099	Equisetopsida	Leguminosae	<i>Rhynchosia acuminatissima</i>	None	C	None	0	2	22/07/2010
14257	Equisetopsida	Leguminosae	<i>Rhynchosia minima</i>	None	C	None	0	1	22/07/2010
9173	Equisetopsida	Leguminosae	<i>Rhynchosia minima var. australis</i>	None	C	None	1	1	22/11/1987
12857	Equisetopsida	Leguminosae	<i>Schotia brachypetala</i>	kaffir bean	None	None	1	1	26/11/2004
15576	Equisetopsida	Leguminosae	<i>Senna alata</i>	None	None	None	1	1	13/12/2004
15069	Equisetopsida	Leguminosae	<i>Senna barclayana</i>	None	C	None	2	2	14/12/2004

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15070	Equisetopsida	Leguminosae	<i>Senna coronilloides</i>	None	C	None	1	1	31/03/1920
18867	Equisetopsida	Leguminosae	<i>Senna gaudichaudii</i>	None	C	None	6	8	15/02/2018
14196	Equisetopsida	Leguminosae	<i>Senna occidentalis</i>	coffee senna	None	None	0	1	22/07/2010
15073	Equisetopsida	Leguminosae	<i>Senna pendula</i> var. <i>glabrata</i>	Easter cassia	None	None	4	5	22/07/2010
5851	Equisetopsida	Leguminosae	<i>Senna sophera</i> var. <i>sophera</i>	None	C	None	1	1	31/03/1920
8199	Equisetopsida	Leguminosae	<i>Senna surattensis</i>	None	C	None	0	1	22/07/2010
13072	Equisetopsida	Leguminosae	<i>Sesbania</i>	None	None	None	0	3	10/02/2009
15079	Equisetopsida	Leguminosae	<i>Sesbania cannabina</i> var. <i>cannabina</i>	None	C	None	1	2	21/06/2018
36634	Equisetopsida	Leguminosae	<i>Solori involuta</i>	None	C	None	0	1	19/04/1999
12876	Equisetopsida	Leguminosae	<i>Stylosanthes scabra</i>	None	None	None	4	12	15/02/2018
15014	Equisetopsida	Leguminosae	<i>Swainsona galegifolia</i>	smooth Darling pea	C	None	0	2	19/04/1999
8254	Equisetopsida	Leguminosae	<i>Swainsona queenslandica</i>	None	C	None	1	1	30/09/2001
12879	Equisetopsida	Leguminosae	<i>Tamarindus indica</i>	None	None	None	4	4	14/12/2004
15019	Equisetopsida	Leguminosae	<i>Tephrosia astragaloides</i>	None	C	None	1	1	23/02/2014
15020	Equisetopsida	Leguminosae	<i>Tephrosia filipes</i> subsp. <i>filipes</i>	None	C	None	0	1	06/12/2011
15021	Equisetopsida	Leguminosae	<i>Tephrosia juncea</i>	None	C	None	0	1	22/07/2010
14149	Equisetopsida	Leguminosae	<i>Tephrosia rufula</i>	None	C	None	2	3	23/02/2013
14998	Equisetopsida	Leguminosae	<i>Uraia lagopodioides</i>	None	C	None	1	1	29/02/2012
30907	Equisetopsida	Leguminosae	<i>Vachellia bidwillii</i>	None	C	None	5	8	15/02/2018
34113	Equisetopsida	Leguminosae	<i>Vachellia nilotica</i>	prickly acacia	None	None	3	3	27/11/2004
12897	Equisetopsida	Leguminosae	<i>Vigna luteola</i>	dalrymple vigna	None	None	2	2	11/10/2004
10196	Equisetopsida	Leguminosae	<i>Vigna vexillata</i> var. <i>angustifolia</i>	None	C	None	1	1	13/03/1985
7462	Equisetopsida	Loganiaceae	<i>Strychnos psilosperma</i>	strychnine tree	C	None	1	23	22/07/2010
17988	Equisetopsida	Loranthaceae	<i>Amyema congener</i> subsp. <i>rotundifolia</i>	None	C	None	1	3	21/06/2018
14850	Equisetopsida	Loranthaceae	<i>Amyema conspicua</i> subsp. <i>conspicua</i>	None	C	None	0	1	22/07/2010
17991	Equisetopsida	Loranthaceae	<i>Amyema miquelii</i>	None	C	None	1	3	21/06/2019
17995	Equisetopsida	Loranthaceae	<i>Amylothea dictyophleba</i>	None	C	None	2	2	25/07/2002
13236	Equisetopsida	Loranthaceae	<i>Dendrophthoe glabrescens</i>	None	C	None	4	4	18/02/1996
11979	Equisetopsida	Lythraceae	<i>Ammannia multiflora</i>	jerry-jerry	C	None	1	1	07/11/2000
22689	Equisetopsida	Lythraceae	<i>Lagerstroemia indica</i>	None	None	None	2	2	16/12/2004
18081	Equisetopsida	Malvaceae	<i>Abutilon auritum</i>	Chinese lantern	C	None	1	11	22/07/2010
31412	Equisetopsida	Malvaceae	<i>Abutilon guineense</i>	None	None	None	4	4	13/02/2019
13048	Equisetopsida	Malvaceae	<i>Abutilon leucopetalum</i>	None	C	None	1	1	15/04/1985
18089	Equisetopsida	Malvaceae	<i>Abutilon oxycarpum</i>	None	C	None	0	3	19/04/1999
8340	Equisetopsida	Malvaceae	<i>Abutilon oxycarpum</i> var. <i>oxycarpum</i>	None	C	None	0	1	22/07/2010
16953	Equisetopsida	Malvaceae	<i>Hibiscus divaricatus</i>	None	C	None	1	5	15/02/2018
16955	Equisetopsida	Malvaceae	<i>Hibiscus heterophyllus</i>	None	C	None	2	22	21/06/2018

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12961	Equisetopsida	Malvaceae	<i>Hibiscus rosasinensis</i>	None	None	None	1	1	14/12/2004
16961	Equisetopsida	Malvaceae	<i>Hibiscus tiliaceus</i>	cotton tree	C	None	1	1	27/10/1995
33995	Equisetopsida	Malvaceae	<i>Hibiscus tridactylites</i>	None	C	None	1	1	13/02/2019
16962	Equisetopsida	Malvaceae	<i>Hibiscus vitifolius</i>	None	C	None	2	2	22/11/1987
22230	Equisetopsida	Malvaceae	<i>Malvastrum americanum</i>	None	None	None	0	1	22/07/2010
16718	Equisetopsida	Malvaceae	<i>Malvastrum americanum</i> <i>var. americanum</i>	None	None	None	0	2	12/12/1996
12943	Equisetopsida	Malvaceae	<i>Malvastrum americanum</i> <i>var. stellatum</i>	None	C	None	1	1	31/03/1920
31326	Equisetopsida	Malvaceae	<i>Malvastrum</i> <i>coromandelianum</i> subsp. <i>coromandelianum</i>	None	None	None	1	2	21/06/2018
16151	Equisetopsida	Malvaceae	<i>Sida</i>	None	None	None	0	8	06/12/2011
34055	Equisetopsida	Malvaceae	<i>Sida ciliaris</i>	None	None	None	1	1	19/02/2019
16195	Equisetopsida	Malvaceae	<i>Sida cordifolia</i>	None	None	None	1	4	15/02/2018
22197	Equisetopsida	Malvaceae	<i>Sida hackettiana</i>	None	C	None	1	7	10/05/2019
22198	Equisetopsida	Malvaceae	<i>Sida hackettiana</i> subsp. (Gayndah P.Grimshaw+ PG2388)	None	C	None	0	4	21/06/2019
16146	Equisetopsida	Malvaceae	<i>Sida rhombifolia</i>	None	None	None	1	5	22/07/2010
6807	Equisetopsida	Malvaceae	<i>Sida</i> sp. (Greenvale R.J.Fensham 1150)	None	C	None	1	1	31/05/2003
22199	Equisetopsida	Malvaceae	<i>Sida</i> sp. (Musselbrook M.B.Thomas+ MRS437)	None	C	None	0	1	22/07/2010
16148	Equisetopsida	Malvaceae	<i>Sida spinosa</i>	spiny sida	None	None	3	3	14/12/2004
16150	Equisetopsida	Malvaceae	<i>Sida trichopoda</i>	None	C	None	1	1	31/05/2003
15990	Equisetopsida	Malvaceae	<i>Urena lobata</i>	urena weed	None	None	0	1	10/05/2019
16724	Equisetopsida	Marsileaceae	<i>Marsilea</i>	None	None	None	2	2	05/06/2010
12358	Equisetopsida	Marsileaceae	<i>Marsilea mutica</i>	shiny nardoo	C	None	0	2	06/12/2011
15289	Equisetopsida	Martyniaceae	<i>Ibicella lutea</i>	None	None	None	1	1	26/11/2004
17362	Equisetopsida	Meliaceae	<i>Dysoxylum</i> <i>gaudichaudianum</i>	ivory mahogany	C	None	1	2	19/04/1999
16661	Equisetopsida	Meliaceae	<i>Melia azedarach</i>	white cedar	C	None	1	20	21/06/2018
16559	Equisetopsida	Meliaceae	<i>Owenia venosa</i>	crow's apple	C	None	1	1	22/05/1997
15987	Equisetopsida	Meliaceae	<i>Turraea pubescens</i>	native honeysuckle	C	None	2	22	15/02/2018
16897	Equisetopsida	Menispermaceae	<i>Hypserpa decumbens</i>	None	C	None	0	4	22/07/2010
16860	Equisetopsida	Menispermaceae	<i>Legnephora moorei</i>	None	C	None	1	2	28/02/1997
14323	Equisetopsida	Menispermaceae	<i>Pleogyne australis</i>	wiry grape	C	None	1	13	19/04/1999
14269	Equisetopsida	Menispermaceae	<i>Sarcopetalum harveyanum</i>	pearl vine	C	None	0	1	22/07/2010
16100	Equisetopsida	Menispermaceae	<i>Stephania japonica</i> var. <i>discolor</i>	None	C	None	0	1	15/02/2018
16101	Equisetopsida	Menispermaceae	<i>Stephania japonica</i> var. <i>timoriensis</i>	None	C	None	0	1	19/04/1999

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3288	Equisetopsida	Menispermaceae	<i>Stephania renifolia</i>	None	C	None	1	1	31/03/1920
15998	Equisetopsida	Menispermaceae	<i>Tinospora smilacina</i>	snakevine	C	None	0	10	22/07/2010
14327	Equisetopsida	Menyanthaceae	<i>Nymphoides indica</i>	water snowflake	C	None	0	2	06/12/2011
12433	Equisetopsida	Molluginaceae	<i>Glinus lotoides</i>	hairy carpet weed	C	None	4	5	07/11/2011
14131	Equisetopsida	Monimiaceae	<i>Wilkiea macrophylla</i>	large-leaved wilkiea	C	None	1	1	10/08/2002
17158	Equisetopsida	Moraceae	<i>Ficus</i>	None	None	None	0	3	18/01/2012
17132	Equisetopsida	Moraceae	<i>Ficus coronata</i>	creek sandpaper fig	C	None	0	3	01/12/2008
17135	Equisetopsida	Moraceae	<i>Ficus fraseri</i>	white sandpaper fig	C	None	0	1	19/04/1999
17143	Equisetopsida	Moraceae	<i>Ficus obliqua</i>	None	C	None	2	10	22/07/2010
17144	Equisetopsida	Moraceae	<i>Ficus opposita</i>	None	C	None	1	20	10/05/2019
8827	Equisetopsida	Moraceae	<i>Ficus racemosa</i> var. <i>racemosa</i>	None	C	None	0	2	21/06/2019
13340	Equisetopsida	Moraceae	<i>Ficus rubiginosa</i>	Port Jackson fig	C	None	0	2	21/06/2019
22365	Equisetopsida	Moraceae	<i>Ficus rubiginosa</i> forma <i>glabrescens</i>	None	C	None	1	1	03/09/1985
17155	Equisetopsida	Moraceae	<i>Ficus virens</i>	None	C	None	0	4	22/07/2010
17154	Equisetopsida	Moraceae	<i>Ficus virens</i> var. <i>virens</i>	None	C	None	1	2	21/06/2018
17157	Equisetopsida	Moraceae	<i>Ficus watkinsiana</i>	green-leaved Moreton Bay fig	C	None	0	2	22/07/2010
13825	Equisetopsida	Moraceae	<i>Maclura cochinchinensis</i>	cockspur thorn	C	None	0	2	30/06/1994
13303	Equisetopsida	Moraceae	<i>Morus alba</i>	white mulberry	None	None	1	1	14/12/2004
9118	Equisetopsida	Moraceae	<i>Streblus brunonianus</i>	whalebone tree	C	None	1	14	09/04/2013
6403	Equisetopsida	Moraceae	<i>Trophis scandens</i>	None	C	None	0	5	22/07/2010
6402	Equisetopsida	Moraceae	<i>Trophis scandens</i> subsp. <i>scandens</i>	None	C	None	2	13	21/06/2019
17344	Equisetopsida	Myrsinaceae	<i>Embelia australiana</i>	embelia	C	None	0	2	19/04/1999
30309	Equisetopsida	Myrsinaceae	<i>Myrsine variabilis</i>	None	C	None	2	11	11/07/2018
18104	Equisetopsida	Myrtaceae	<i>Acmena hemilampra</i> subsp. <i>hemilampra</i>	None	C	None	1	1	16/09/2012
13321	Equisetopsida	Myrtaceae	<i>Backhousia kingii</i>	None	C	None	1	2	27/03/1993
34781	Equisetopsida	Myrtaceae	<i>Backhousia subargentea</i>	None	C	None	0	1	19/04/1999
6531	Equisetopsida	Myrtaceae	<i>Corymbia citriodora</i>	spotted gum	C	None	0	5	06/12/2011
26383	Equisetopsida	Myrtaceae	<i>Corymbia citriodora</i> subsp. <i>citriodora</i>	None	C	None	0	3	15/02/2018
6534	Equisetopsida	Myrtaceae	<i>Corymbia clarksoniana</i>	None	C	None	3	10	21/06/2018
8866	Equisetopsida	Myrtaceae	<i>Corymbia dallachiana</i>	None	C	None	0	4	21/06/2018
6574	Equisetopsida	Myrtaceae	<i>Corymbia erythrophloia</i>	variable-barked bloodwood	C	None	5	8	15/02/2018

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6445	Equisetopsida	Myrtaceae	<i>Corymbia intermedia</i>	pink bloodwood	C	None	0	13	10/05/2019
6572	Equisetopsida	Myrtaceae	<i>Corymbia tessellaris</i>	Moreton Bay ash	C	None	0	9	21/06/2019
6418	Equisetopsida	Myrtaceae	<i>Corymbia torelliana</i>	cadaghi	C	None	1	2	21/06/2018
6443	Equisetopsida	Myrtaceae	<i>Corymbia trachyphloia</i> subsp. <i>trachyphloia</i>	None	C	None	0	1	15/02/2018
17290	Equisetopsida	Myrtaceae	<i>Eucalyptus acmenoides</i>	None	C	None	1	9	18/05/2021
17247	Equisetopsida	Myrtaceae	<i>Eucalyptus camaldulensis</i>	None	C	None	0	1	13/11/2008
12511	Equisetopsida	Myrtaceae	<i>Eucalyptus cambageana</i>	Dawson gum	C	None	1	1	31/03/1920
9374	Equisetopsida	Myrtaceae	<i>Eucalyptus coolabah</i>	coolabah	C	None	0	4	21/06/2018
17252	Equisetopsida	Myrtaceae	<i>Eucalyptus crebra</i>	narrow-leaved red ironbark	C	None	4	21	10/05/2019
17262	Equisetopsida	Myrtaceae	<i>Eucalyptus exserta</i>	Queensland peppermint	C	None	0	4	15/02/2018
13902	Equisetopsida	Myrtaceae	<i>Eucalyptus major</i>	mountain grey gum	C	None	2	2	22/04/1999
17221	Equisetopsida	Myrtaceae	<i>Eucalyptus melanophloia</i>	None	C	None	0	4	15/02/2018
17223	Equisetopsida	Myrtaceae	<i>Eucalyptus melliodora</i>	yellow box	C	None	1	1	02/03/1997
17229	Equisetopsida	Myrtaceae	<i>Eucalyptus moluccana</i>	gum-topped box	C	None	5	11	15/02/2018
12503	Equisetopsida	Myrtaceae	<i>Eucalyptus platyphylla</i>	poplar gum	C	None	2	2	05/05/1966
12143	Equisetopsida	Myrtaceae	<i>Eucalyptus platyphylla</i> x <i>Eucalyptus tereticornis</i>	None	C	None	1	1	18/03/1984
14554	Equisetopsida	Myrtaceae	<i>Eucalyptus raveretiana</i>	black ironbox	C	V	4	4	06/03/1987
17204	Equisetopsida	Myrtaceae	<i>Eucalyptus tereticornis</i>	None	C	None	0	9	15/02/2018
26471	Equisetopsida	Myrtaceae	<i>Eucalyptus tereticornis</i> subsp. <i>tereticornis</i>	None	C	None	2	6	21/06/2019
17208	Equisetopsida	Myrtaceae	<i>Eugenia reinwardtiana</i>	beach cherry	C	None	1	1	31/03/1920
25908	Equisetopsida	Myrtaceae	<i>Gossia acmenoides</i>	None	C	None	0	5	22/07/2010
27383	Equisetopsida	Myrtaceae	<i>Gossia bidwillii</i>	None	C	None	3	17	22/07/2010
13416	Equisetopsida	Myrtaceae	<i>Leptospermum</i>	None	None	None	0	1	01/12/2008
14441	Equisetopsida	Myrtaceae	<i>Leptospermum polygalifolium</i>	tantoon	C	None	1	2	29/04/1995
16780	Equisetopsida	Myrtaceae	<i>Lophostemon confertus</i>	brush box	C	None	3	21	15/02/2018
16730	Equisetopsida	Myrtaceae	<i>Lophostemon suaveolens</i>	swamp box	C	None	0	7	15/02/2018
13430	Equisetopsida	Myrtaceae	<i>Melaleuca</i>	None	None	None	0	2	01/12/2008
16684	Equisetopsida	Myrtaceae	<i>Melaleuca bracteata</i>	None	C	None	1	1	31/03/1920
14388	Equisetopsida	Myrtaceae	<i>Melaleuca dealbata</i>	swamp tea-tree	C	None	1	1	29/09/1983
18283	Equisetopsida	Myrtaceae	<i>Melaleuca fluviatilis</i>	None	C	None	2	3	21/06/2019
16689	Equisetopsida	Myrtaceae	<i>Melaleuca leucadendra</i>	broad-leaved tea-tree	C	None	1	1	12/05/1956
18771	Equisetopsida	Myrtaceae	<i>Melaleuca linariifolia</i>	snow-in summer	C	None	0	1	22/07/2010
13828	Equisetopsida	Myrtaceae	<i>Melaleuca nervosa</i>	None	C	None	1	3	12/12/1996
16695	Equisetopsida	Myrtaceae	<i>Melaleuca quinquenervia</i>	swamp paperbark	C	None	0	3	21/06/2018

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5505	Equisetopsida	Myrtaceae	<i>Melaleuca trichostachya</i>	None	C	None	0	1	21/06/2018
31375	Equisetopsida	Myrtaceae	<i>Melaleuca viminalis</i>	None	C	None	0	3	22/07/2010
13399	Equisetopsida	Myrtaceae	<i>Psidium guajava</i>	guava	None	None	4	4	14/12/2004
16288	Equisetopsida	Myrtaceae	<i>Rhodamnia spongiosa</i>	None	C	None	1	1	10/08/2002
16078	Equisetopsida	Myrtaceae	<i>Syzygium australe</i>	scrub cherry	C	None	3	9	19/04/1999
13435	Equisetopsida	Najadaceae	<i>Najas</i>	None	None	None	0	1	13/11/2008
16571	Equisetopsida	Nephrolepidaceae	<i>Nephrolepis cordifolia</i>	fishbone fern	C	None	0	1	19/04/1999
17826	Equisetopsida	Nyctaginaceae	<i>Boerhavia</i>	None	None	None	0	2	13/11/2008
6062	Equisetopsida	Nyctaginaceae	<i>Boerhavia</i> sp. (<i>Bargara</i> L.Pedley 5382)	None	C	None	1	1	01/12/2002
9478	Equisetopsida	Nyctaginaceae	<i>Bougainvillea glabra</i>	None	None	None	2	2	16/12/2004
16453	Equisetopsida	Nyctaginaceae	<i>Pisonia aculeata</i>	thorny pisonia	C	None	0	2	19/04/1999
19941	Equisetopsida	Nymphaeaceae	<i>Nymphaea caerulea</i>	None	None	None	0	1	06/12/2011
29765	Equisetopsida	Nymphaeaceae	<i>Nymphaea gigantea</i>	None	C	None	0	1	13/11/2008
13390	Equisetopsida	Ochnaceae	<i>Ochna serrulata</i>	ochna	None	None	2	2	16/12/2004
17638	Equisetopsida	Oleaceae	<i>Chionanthus ramiflorus</i>	northern olive	C	None	0	3	19/04/1999
16839	Equisetopsida	Oleaceae	<i>Jasminum didymum</i>	None	C	None	0	6	12/12/1996
16836	Equisetopsida	Oleaceae	<i>Jasminum didymum</i> subsp. <i>didymum</i>	None	C	None	0	2	10/05/2019
16837	Equisetopsida	Oleaceae	<i>Jasminum didymum</i> subsp. <i>lineare</i>	None	C	None	0	1	15/02/2018
16838	Equisetopsida	Oleaceae	<i>Jasminum didymum</i> subsp. <i>racemosum</i>	None	C	None	1	25	15/02/2018
9461	Equisetopsida	Oleaceae	<i>Jasminum simplicifolium</i>	None	C	None	1	11	21/06/2018
16840	Equisetopsida	Oleaceae	<i>Jasminum simplicifolium</i> subsp. <i>australiense</i>	None	C	None	5	19	15/02/2018
13835	Equisetopsida	Oleaceae	<i>Notelaea microcarpa</i>	None	C	None	2	17	22/07/2010
16594	Equisetopsida	Oleaceae	<i>Olea paniculata</i>	None	C	None	0	3	15/02/2018
13421	Equisetopsida	Onagraceae	<i>Ludwigia</i>	None	None	None	2	2	14/12/2004
13420	Equisetopsida	Onagraceae	<i>Ludwigia octovalvis</i>	willow primrose	C	None	1	4	21/06/2018
16731	Equisetopsida	Onagraceae	<i>Ludwigia peploides</i> subsp. <i>montevidensis</i>	None	C	None	0	2	10/02/2009
14087	Equisetopsida	Orchidaceae	<i>Acianthus fornicatus</i>	pixie caps	C	None	1	1	17/04/1997
17779	Equisetopsida	Orchidaceae	<i>Bulbophyllum minutissimum</i>	grain-of-wheat orchid	C	None	1	1	17/04/1997
13322	Equisetopsida	Orchidaceae	<i>Caladenia</i>	None	None	None	1	1	04/09/1998
13444	Equisetopsida	Orchidaceae	<i>Caladenia carnea</i>	None	C	None	2	2	12/08/1999
2163	Equisetopsida	Orchidaceae	<i>Chiloglottis diphylla</i>	None	C	None	1	1	17/04/1997
9265	Equisetopsida	Orchidaceae	<i>Corybas barbarae</i>	helmet orchid	C	None	1	1	17/04/1997
17505	Equisetopsida	Orchidaceae	<i>Cymbidium canaliculatum</i>	None	C	None	0	2	15/02/2018
12834	Equisetopsida	Orchidaceae	<i>Dendrobium gracilicaule</i>	slender orchid	C	None	0	1	19/04/1999
14631	Equisetopsida	Orchidaceae	<i>Dendrobium speciosum</i>	None	C	None	0	1	29/04/1995

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5768	Equisetopsida	Orchidaceae	<i>Dockrillia bowmanii</i>	scrub pencil orchid	C	None	0	1	22/07/2010
5798	Equisetopsida	Orchidaceae	<i>Dockrillia mortii</i>	None	C	None	0	1	19/04/1999
8197	Equisetopsida	Orchidaceae	<i>Geodorum densiflorum</i>	pink nodding orchid	C	None	0	2	27/03/1993
16345	Equisetopsida	Orchidaceae	<i>Pterostylis baptistii</i>	king greenhood	C	None	1	1	17/04/1997
9321	Equisetopsida	Orchidaceae	<i>Pterostylis nutans</i>	None	C	None	1	1	30/06/2011
12707	Equisetopsida	Orchidaceae	<i>Saccolabiopsis armitii</i>	None	C	None	0	1	19/04/1999
12741	Equisetopsida	Oxalidaceae	<i>Oxalis</i>	None	None	None	0	2	22/07/2010
9317	Equisetopsida	Oxalidaceae	<i>Oxalis chnoodes</i>	None	C	None	1	1	22/11/1987
9457	Equisetopsida	Oxalidaceae	<i>Oxalis corniculata</i>	None	None	None	0	1	19/04/1999
6106	Equisetopsida	Oxalidaceae	<i>Oxalis debilis</i> var. <i>corymbosa</i>	pink shamrock	None	None	1	1	11/08/1985
9598	Equisetopsida	Oxalidaceae	<i>Oxalis radicata</i>	None	C	None	1	1	11/08/1985
17966	Equisetopsida	Papaveraceae	<i>Argemone ochroleuca</i> subsp. <i>ochroleuca</i>	Mexican poppy	None	None	4	4	14/12/2004
16529	Equisetopsida	Passifloraceae	<i>Passiflora aurantia</i>	None	C	None	0	4	22/07/2010
16530	Equisetopsida	Passifloraceae	<i>Passiflora foetida</i>	None	None	None	4	11	10/05/2019
16532	Equisetopsida	Passifloraceae	<i>Passiflora suberosa</i>	corky passion flower	None	None	0	19	22/07/2010
36078	Equisetopsida	Passifloraceae	<i>Passiflora suberosa</i> subsp. <i>litoralis</i>	None	None	None	0	5	21/06/2019
16533	Equisetopsida	Passifloraceae	<i>Passiflora subpeltata</i>	white passion flower	None	None	1	1	17/04/1997
16660	Equisetopsida	Pentapetaceae	<i>Melhania oblongifolia</i>	None	C	None	2	2	23/11/1987
12784	Equisetopsida	Petiveriaceae	<i>Monococcus echinophorus</i>	burr bush	C	None	0	2	19/04/1999
16302	Equisetopsida	Petiveriaceae	<i>Rivina humilis</i>	None	None	None	5	18	21/06/2018
13596	Equisetopsida	Phrymaceae	<i>Mimulus gracilis</i>	slender monkey flower	C	None	1	1	09/03/2003
12589	Equisetopsida	Phrymaceae	<i>Peplidium maritimum</i>	None	C	None	1	1	31/03/1920
41378	Equisetopsida	Phyllanthaceae	<i>Actephila mooreana</i>	None	C	None	1	1	01/07/1993
11367	Equisetopsida	Phyllanthaceae	<i>Actephila sessilifolia</i>	None	C	None	1	2	25/01/1994
17808	Equisetopsida	Phyllanthaceae	<i>Breynia oblongifolia</i>	None	C	None	1	19	21/06/2018
11327	Equisetopsida	Phyllanthaceae	<i>Bridelia exaltata</i>	None	C	None	0	1	19/04/1999
17810	Equisetopsida	Phyllanthaceae	<i>Bridelia leichhardtii</i>	None	C	None	4	29	21/06/2018
14706	Equisetopsida	Phyllanthaceae	<i>Cleistanthus cunninghamii</i>	omega	C	None	0	1	19/04/1999
17617	Equisetopsida	Phyllanthaceae	<i>Cleistanthus dallachyanus</i>	None	C	None	2	2	12/10/2013
17126	Equisetopsida	Phyllanthaceae	<i>Flueggea leucopyrus</i>	None	C	None	0	8	19/04/1999

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17096	Equisetopsida	Phyllanthaceae	<i>Glochidion lobocarpum</i>	None	C	None	0	6	19/04/1999
18266	Equisetopsida	Phyllanthaceae	<i>Phyllanthus microcladus</i>	None	C	None	1	10	19/04/1999
11281	Equisetopsida	Phyllanthaceae	<i>Phyllanthus subcrenulatus</i>	None	C	None	1	2	19/04/1999
16473	Equisetopsida	Phyllanthaceae	<i>Phyllanthus virgatus</i>	None	C	None	0	3	10/05/2019
35882	Equisetopsida	Phyllanthaceae	<i>Synostemon albiflorus</i>	None	C	None	0	4	22/07/2010
16479	Equisetopsida	Phytolaccaceae	<i>Phytolacca octandra</i>	inkweed	None	None	1	1	16/12/2004
17414	Equisetopsida	Picrodendraceae	<i>Dissiliaria muelleri</i>	Mueller's redheart	C	None	4	11	05/04/2000
16505	Equisetopsida	Picrodendraceae	<i>Petalostigma pubescens</i>	quinine tree	C	None	1	7	21/06/2018
5286	Equisetopsida	Piperaceae	<i>Peperomia leptostachya</i>	None	C	None	0	4	19/04/1999
30283	Equisetopsida	Piperaceae	<i>Piper hederaceum</i>	None	C	None	0	1	04/09/1998
22219	Equisetopsida	Pittosporaceae	<i>Auranticarpa rhombifolia</i>	None	C	None	1	10	19/04/1999
26012	Equisetopsida	Pittosporaceae	<i>Pittosporum angustifolium</i>	None	C	None	1	1	03/09/1963
16457	Equisetopsida	Pittosporaceae	<i>Pittosporum ferrugineum</i>	None	C	None	0	1	12/12/1996
16459	Equisetopsida	Pittosporaceae	<i>Pittosporum revolutum</i>	yellow pittosporum	C	None	0	1	22/07/2010
22387	Equisetopsida	Pittosporaceae	<i>Pittosporum spinescens</i>	None	C	None	4	26	21/06/2018
36589	Equisetopsida	Pittosporaceae	<i>Pittosporum tinifolium</i>	None	C	None	1	1	27/04/1990
16411	Equisetopsida	Pittosporaceae	<i>Pittosporum venulosum</i>	None	C	None	0	1	27/03/1993
17884	Equisetopsida	Plantaginaceae	<i>Bacopa monnieri</i>	None	C	None	1	1	14/12/2004
18225	Equisetopsida	Plantaginaceae	<i>Mecardonia procumbens</i>	None	None	None	2	2	13/02/2019
16183	Equisetopsida	Plantaginaceae	<i>Scoparia dulcis</i>	scoparia	None	None	2	2	14/12/2004
6651	Equisetopsida	Plumbaginaceae	<i>Limonium solanderi</i>	None	C	None	1	1	18/04/2012
16427	Equisetopsida	Plumbaginaceae	<i>Plumbago zeylanica</i>	native plumbago	C	None	2	2	01/09/1975
15670	Equisetopsida	Poaceae	<i>Alloteropsis semialata</i>	cockatoo grass	C	None	0	1	15/02/2018
15675	Equisetopsida	Poaceae	<i>Ancistrachne uncinulata</i>	hooky grass	C	None	1	14	22/07/2010
14811	Equisetopsida	Poaceae	<i>Aristida</i>	None	None	None	0	3	15/02/2018
11121	Equisetopsida	Poaceae	<i>Aristida gracilipes</i>	None	C	None	1	2	22/07/2010
11518	Equisetopsida	Poaceae	<i>Aristida latifolia</i>	feathertop wiregrass	C	None	1	1	31/05/1983
15656	Equisetopsida	Poaceae	<i>Aristida leptopoda</i>	white speargrass	C	None	0	1	15/02/2018

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8934	Equisetopsida	Poaceae	<i>Aristida personata</i>	None	C	None	1	1	08/03/1937
11124	Equisetopsida	Poaceae	<i>Aristida queenslandica</i> var. <i>dissimilis</i>	None	C	None	1	2	22/07/2010
11123	Equisetopsida	Poaceae	<i>Aristida queenslandica</i> var. <i>queenslandica</i>	None	C	None	0	2	22/07/2010
10307	Equisetopsida	Poaceae	<i>Aristida spuria</i>	None	C	None	1	2	22/07/2010
15658	Equisetopsida	Poaceae	<i>Aristida vagans</i>	None	C	None	0	2	15/02/2018
15634	Equisetopsida	Poaceae	<i>Arundinella nepalensis</i>	reedgrass	C	None	1	4	22/07/2010
15604	Equisetopsida	Poaceae	<i>Bothriochloa bladhii</i> subsp. <i>bladhii</i>	None	C	None	1	1	25/04/1990
8843	Equisetopsida	Poaceae	<i>Bothriochloa decipiens</i>	None	C	None	0	1	15/02/2018
10316	Equisetopsida	Poaceae	<i>Bothriochloa decipiens</i> var. <i>decipiens</i>	None	C	None	0	1	22/07/2010
34710	Equisetopsida	Poaceae	<i>Calyptochloa gracillima</i> subsp. <i>gracillima</i>	None	C	None	2	3	22/07/2010
14773	Equisetopsida	Poaceae	<i>Capillipedium parviflorum</i>	scented top	C	None	1	1	07/02/1981
14774	Equisetopsida	Poaceae	<i>Capillipedium spicigerum</i>	spicytop	C	None	1	1	27/04/1990
20399	Equisetopsida	Poaceae	<i>Cenchrus</i>	None	None	None	0	1	21/07/1994
14742	Equisetopsida	Poaceae	<i>Cenchrus caliculatus</i>	hillside burrgrass	C	None	1	1	08/03/1937
15540	Equisetopsida	Poaceae	<i>Cenchrus ciliaris</i>	None	None	None	0	2	10/05/2019
15541	Equisetopsida	Poaceae	<i>Cenchrus echinatus</i>	Mossman River grass	None	None	1	1	14/12/2004
33863	Equisetopsida	Poaceae	<i>Cenchrus polystachios</i>	None	None	None	0	1	01/10/2003
20434	Equisetopsida	Poaceae	<i>Chloris</i>	None	None	None	0	3	06/12/2011
15551	Equisetopsida	Poaceae	<i>Chloris gayana</i>	rhodes grass	None	None	2	5	21/06/2019
15552	Equisetopsida	Poaceae	<i>Chloris inflata</i>	purpletop chloris	None	None	1	4	10/05/2019
15526	Equisetopsida	Poaceae	<i>Chloris ventricosa</i>	tall chloris	C	None	1	3	22/07/2010
15527	Equisetopsida	Poaceae	<i>Chloris virgata</i>	feathertop rhodes grass	None	None	1	1	15/12/2004
20448	Equisetopsida	Poaceae	<i>Chrysopogon</i>	None	None	None	0	1	06/12/2011
15531	Equisetopsida	Poaceae	<i>Chrysopogon fallax</i>	None	C	None	0	6	15/02/2018
15498	Equisetopsida	Poaceae	<i>Cleistochloa subjuncea</i>	None	C	None	1	1	29/04/1995
15483	Equisetopsida	Poaceae	<i>Cymbopogon bombycinus</i>	silky oilgrass	C	None	0	1	22/07/2010
15484	Equisetopsida	Poaceae	<i>Cymbopogon queenslandicus</i>	None	C	None	1	1	08/03/1937
15485	Equisetopsida	Poaceae	<i>Cymbopogon refractus</i>	barbed-wire grass	C	None	0	10	10/05/2019
15486	Equisetopsida	Poaceae	<i>Cynodon dactylon</i>	None	None	None	0	4	10/05/2019
15489	Equisetopsida	Poaceae	<i>Dactyloctenium aegyptium</i>	coast button grass	None	None	3	3	26/11/2004
15490	Equisetopsida	Poaceae	<i>Dactyloctenium radulans</i>	button grass	C	None	1	2	21/06/2019
15463	Equisetopsida	Poaceae	<i>Dichanthium annulatum</i>	sheda grass	None	None	2	2	07/11/2000
15464	Equisetopsida	Poaceae	<i>Dichanthium aristatum</i>	angleton grass	None	None	2	2	22/05/2019
15465	Equisetopsida	Poaceae	<i>Dichanthium fecundum</i>	curly bluegrass	C	None	0	1	13/11/2008

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9620	Equisetopsida	Poaceae	<i>Dichanthium sericeum</i>	None	C	None	0	1	06/12/2011
15467	Equisetopsida	Poaceae	<i>Dichanthium sericeum</i> <i>subsp. sericeum</i>	None	C	None	1	1	07/02/1981
10364	Equisetopsida	Poaceae	<i>Digitaria</i>	None	None	None	0	2	12/12/1996
15419	Equisetopsida	Poaceae	<i>Digitaria brownii</i>	None	C	None	1	1	08/03/1937
15423	Equisetopsida	Poaceae	<i>Digitaria diffusa</i>	None	C	None	0	5	22/07/2010
15424	Equisetopsida	Poaceae	<i>Digitaria divaricatissima</i>	spreading umbrella grass	C	None	1	1	07/02/1981
15427	Equisetopsida	Poaceae	<i>Digitaria ramularis</i>	None	C	None	1	1	15/07/1938
11065	Equisetopsida	Poaceae	<i>Digitaria violascens</i>	bastard summergrass	None	None	1	1	25/11/1981
34495	Equisetopsida	Poaceae	<i>Dinebra decipiens</i> var. <i>asthenes</i>	None	C	None	2	2	09/06/1996
34493	Equisetopsida	Poaceae	<i>Dinebra decipiens</i> var. <i>decipiens</i>	None	C	None	0	4	22/07/2010
34500	Equisetopsida	Poaceae	<i>Dinebra ligulata</i>	None	C	None	1	1	28/02/2001
34499	Equisetopsida	Poaceae	<i>Diplachne fusca</i> var. <i>fusca</i>	None	C	None	2	2	14/12/2004
14567	Equisetopsida	Poaceae	<i>Echinochloa colona</i>	awnless barnyard grass	None	None	2	4	22/07/2010
15395	Equisetopsida	Poaceae	<i>Eleusine indica</i>	crowsfoot grass	None	None	1	1	14/12/2004
10339	Equisetopsida	Poaceae	<i>Enneapogon</i>	None	None	None	0	1	12/12/1996
15409	Equisetopsida	Poaceae	<i>Enteropogon unispiceus</i>	None	C	None	2	6	22/07/2010
15410	Equisetopsida	Poaceae	<i>Entolasia marginata</i>	bordered panic	C	None	1	1	29/04/1995
15411	Equisetopsida	Poaceae	<i>Entolasia stricta</i>	wiry panic	C	None	0	4	15/02/2018
10532	Equisetopsida	Poaceae	<i>Eragrostis</i>	None	None	None	0	3	15/02/2018
15391	Equisetopsida	Poaceae	<i>Eragrostis cilianensis</i>	None	None	None	2	2	15/12/2004
15361	Equisetopsida	Poaceae	<i>Eragrostis elongata</i>	None	C	None	0	1	22/07/2010
15367	Equisetopsida	Poaceae	<i>Eragrostis leptostachya</i>	None	C	None	0	4	15/02/2018
15371	Equisetopsida	Poaceae	<i>Eragrostis parviflora</i>	weeping lovegrass	C	None	1	2	22/07/2010
15374	Equisetopsida	Poaceae	<i>Eragrostis spartnoides</i>	None	C	None	0	4	22/07/2010
15378	Equisetopsida	Poaceae	<i>Eragrostis tenuifolia</i>	elastic grass	None	None	2	2	26/11/2004
15331	Equisetopsida	Poaceae	<i>Eriochloa procera</i>	slender cupgrass	C	None	3	4	22/07/2010
15332	Equisetopsida	Poaceae	<i>Eriochloa pseudoacrotricha</i>	None	C	None	0	1	22/07/2010
15320	Equisetopsida	Poaceae	<i>Heteropogon contortus</i>	black speargrass	C	None	0	15	10/05/2019
10291	Equisetopsida	Poaceae	<i>Holcolemma dispar</i>	None	C	None	1	1	08/05/1937
21954	Equisetopsida	Poaceae	<i>Hymenachne amplexicaulis</i>	hymenachne	None	None	0	1	21/06/2019
9147	Equisetopsida	Poaceae	<i>Hymenachne amplexicaulis</i> 'Olive'	None	None	None	2	2	14/12/2004
10578	Equisetopsida	Poaceae	<i>Hyparrhenia rufa</i>	None	None	None	2	4	22/07/2010
15803	Equisetopsida	Poaceae	<i>Hyparrhenia rufa</i> subsp. <i>rufa</i>	None	None	None	1	6	21/06/2019
15290	Equisetopsida	Poaceae	<i>Imperata cylindrica</i>	blady grass	C	None	0	6	21/06/2019

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15252	Equisetopsida	Poaceae	<i>Ischaemum triticeum</i>	None	C	None	1	1	09/06/1996
15254	Equisetopsida	Poaceae	<i>Iseilema vaginiflorum</i>	red flinders grass	C	None	1	1	31/01/2001
29093	Equisetopsida	Poaceae	<i>Megathyrsus maximus</i>	None	None	None	0	5	21/06/2019
27900	Equisetopsida	Poaceae	<i>Megathyrsus maximus var. pubiglumis</i>	None	None	None	2	11	22/07/2010
15242	Equisetopsida	Poaceae	<i>Melinis minutiflora</i>	molasses grass	None	None	1	1	05/06/1983
9154	Equisetopsida	Poaceae	<i>Melinis repens</i>	red natal grass	None	None	2	15	21/06/2019
29956	Equisetopsida	Poaceae	<i>Moorochloa eruciformis</i>	None	None	None	1	1	28/02/1971
15163	Equisetopsida	Poaceae	<i>Oplismenus aemulus</i>	creeping shade grass	C	None	0	4	19/04/1999
4207	Equisetopsida	Poaceae	<i>Oplismenus imbecillis</i>	None	C	None	0	1	22/07/2010
10637	Equisetopsida	Poaceae	<i>Ottochloa gracillima</i>	pademelon grass	C	None	0	1	22/07/2010
10638	Equisetopsida	Poaceae	<i>Ottochloa nodosa</i>	None	C	None	1	1	17/04/1997
10656	Equisetopsida	Poaceae	<i>Panicum</i>	None	None	None	0	2	15/02/2018
15173	Equisetopsida	Poaceae	<i>Panicum decompositum var. decompositum</i>	None	C	None	1	1	07/02/1981
13607	Equisetopsida	Poaceae	<i>Panicum effusum</i>	None	C	None	1	2	21/07/1994
40372	Equisetopsida	Poaceae	<i>Panicum effusum var. hispidissimum</i>	None	C	None	0	1	15/02/2018
15176	Equisetopsida	Poaceae	<i>Panicum larcomianum</i>	None	C	None	1	1	28/02/1963
10651	Equisetopsida	Poaceae	<i>Panicum paludosum</i>	swamp panic	C	None	1	1	25/05/1996
18424	Equisetopsida	Poaceae	<i>Panicum simile</i>	None	C	None	1	3	22/07/2010
12587	Equisetopsida	Poaceae	<i>Paspalidium</i>	None	None	None	0	3	15/02/2018
10256	Equisetopsida	Poaceae	<i>Paspalidium aversum</i>	None	C	None	1	1	29/02/2012
15184	Equisetopsida	Poaceae	<i>Paspalidium caespitosum</i>	brigalow grass	C	None	2	2	11/05/1956
13553	Equisetopsida	Poaceae	<i>Paspalidium criniforme</i>	None	C	None	1	1	11/05/1956
14345	Equisetopsida	Poaceae	<i>Paspalidium distans</i>	shotgrass	C	None	1	3	22/07/2010
10254	Equisetopsida	Poaceae	<i>Paspalidium flavidum</i>	None	C	None	1	1	11/05/1956
15187	Equisetopsida	Poaceae	<i>Paspalidium gracile</i>	slender panic	C	None	1	2	22/07/2010
15147	Equisetopsida	Poaceae	<i>Phragmites australis</i>	common reed	C	None	0	1	21/06/2018
21284	Equisetopsida	Poaceae	<i>Phyllostachys</i>	None	None	None	1	1	13/12/2004
15113	Equisetopsida	Poaceae	<i>Polypogon monspeliensis</i>	annual beardgrass	None	None	1	1	09/10/2000
21358	Equisetopsida	Poaceae	<i>Pseudoraphis</i>	None	None	None	0	1	10/02/2009
15033	Equisetopsida	Poaceae	<i>Setaria</i>	None	None	None	0	1	06/12/2011
15032	Equisetopsida	Poaceae	<i>Setaria surgens</i>	None	C	None	0	2	22/07/2010
15048	Equisetopsida	Poaceae	<i>Sorghum</i>	None	None	None	0	1	06/12/2011
10246	Equisetopsida	Poaceae	<i>Sorghum arundinaceum</i>	Rhodesian Sudan grass	None	None	3	6	10/05/2019
15042	Equisetopsida	Poaceae	<i>Sorghum bicolor</i>	forage sorghum	None	None	2	2	26/11/2004
15043	Equisetopsida	Poaceae	<i>Sorghum halepense</i>	Johnson grass	None	None	0	1	19/04/1999
14213	Equisetopsida	Poaceae	<i>Sorghum nitidum</i>	None	C	None	0	5	10/05/2019

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10792	Equisetopsida	Poaceae	<i>Sorghum nitidum forma aristatum</i>	None	C	None	2	2	15/12/2004
15041	Equisetopsida	Poaceae	<i>Sorghum x alnum</i>	None	None	None	1	1	03/01/1986
15004	Equisetopsida	Poaceae	<i>Sporobolus</i>	None	None	None	0	2	12/11/2008
15055	Equisetopsida	Poaceae	<i>Sporobolus caroli</i>	fairy grass	C	None	1	1	14/12/2004
15000	Equisetopsida	Poaceae	<i>Sporobolus coromandelianus</i>	None	None	None	1	1	09/03/2006
8082	Equisetopsida	Poaceae	<i>Sporobolus disjunctus</i>	None	C	None	1	1	09/03/2006
14169	Equisetopsida	Poaceae	<i>Sporobolus elongatus</i>	None	C	None	2	2	29/02/2012
22159	Equisetopsida	Poaceae	<i>Sporobolus fertilis</i>	giant Parramatta grass	None	None	2	2	15/12/2004
10794	Equisetopsida	Poaceae	<i>Sporobolus jacquemontii</i>	None	None	None	2	2	11/04/2006
10158	Equisetopsida	Poaceae	<i>Sporobolus natalensis</i>	None	None	None	2	2	15/12/2004
10156	Equisetopsida	Poaceae	<i>Sporobolus pyramidalis</i>	None	None	None	1	7	15/02/2018
15003	Equisetopsida	Poaceae	<i>Sporobolus virginicus</i>	sand couch	C	None	0	2	13/11/2008
14973	Equisetopsida	Poaceae	<i>Themeda quadrivalvis</i>	grader grass	None	None	1	1	31/05/1970
14974	Equisetopsida	Poaceae	<i>Themeda triandra</i>	kangaroo grass	C	None	0	11	21/06/2018
14999	Equisetopsida	Poaceae	<i>Urochloa mosambicensis</i>	sabi grass	None	None	2	4	14/12/2004
2359	Equisetopsida	Poaceae	<i>Urochloa mutica</i>	None	None	None	2	6	21/06/2018
29235	Equisetopsida	Poaceae	<i>Urochloa reptans</i>	None	C	None	1	1	11/05/1956
11104	Equisetopsida	Polygalaceae	<i>Comesperma</i>	None	None	None	0	1	30/06/1994
13252	Equisetopsida	Polygonaceae	<i>Antigonon leptopus</i>	None	None	None	4	4	16/12/2004
34811	Equisetopsida	Polygonaceae	<i>Duma florulenta</i>	None	C	None	1	1	15/08/1997
21257	Equisetopsida	Polygonaceae	<i>Persicaria</i>	None	None	None	0	3	06/12/2011
14350	Equisetopsida	Polygonaceae	<i>Persicaria attenuata</i>	None	C	None	3	3	16/02/1996
16496	Equisetopsida	Polygonaceae	<i>Persicaria lapathifolia</i>	pale knotweed	C	None	1	1	14/12/2004
14351	Equisetopsida	Polygonaceae	<i>Persicaria orientalis</i>	princes feathers	C	None	2	3	21/06/2019
16393	Equisetopsida	Polygonaceae	<i>Polygonum plebeium</i>	small knotweed	C	None	1	1	12/02/2019
16272	Equisetopsida	Polygonaceae	<i>Rumex crispus</i>	curled dock	None	None	1	1	13/12/2004
17354	Equisetopsida	Polypodiaceae	<i>Drynaria rigidula</i>	None	C	None	0	6	19/04/1999
17355	Equisetopsida	Polypodiaceae	<i>Drynaria sparsisora</i>	None	C	None	1	6	22/07/2010
16626	Equisetopsida	Polypodiaceae	<i>Microsorium punctatum</i>	None	C	None	0	6	19/04/1999
11696	Equisetopsida	Polypodiaceae	<i>Platynerium bifurcatum</i>	None	C	None	0	1	19/04/1999
6668	Equisetopsida	Polypodiaceae	<i>Pyrrosia confluens</i>	None	C	None	0	4	19/04/1999
16317	Equisetopsida	Polypodiaceae	<i>Pyrrosia rupestris</i>	rock felt fern	C	None	0	2	19/04/1999
17370	Equisetopsida	Pontederiaceae	<i>Eichhornia crassipes</i>	water hyacinth	None	None	1	2	14/12/2004
13192	Equisetopsida	Pontederiaceae	<i>Monochoria cyanea</i>	None	C	None	2	2	10/02/2011
16410	Equisetopsida	Portulacaceae	<i>Portulaca australis</i>	None	C	None	1	1	14/12/2004
16358	Equisetopsida	Portulacaceae	<i>Portulaca filifolia</i>	None	C	None	1	1	31/03/1920
16359	Equisetopsida	Portulacaceae	<i>Portulaca oleracea</i>	pigweed	None	None	0	1	13/11/2008

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13102	Equisetopsida	Potamogetonaceae	<i>Potamogeton</i>	None	None	None	0	1	19/07/2011
16361	Equisetopsida	Potamogetonaceae	<i>Potamogeton tricarınatus</i>	floating pondweed	C	None	1	1	06/06/2010
34205	Equisetopsida	Potamogetonaceae	<i>Stuckenia pectinata</i>	None	C	None	2	2	04/06/2010
17033	Equisetopsida	Proteaceae	<i>Grevillea helmsiae</i>	None	C	None	4	5	09/04/2013
17045	Equisetopsida	Proteaceae	<i>Grevillea striata</i>	beefwood	C	None	1	1	24/12/1987
18116	Equisetopsida	Pteridaceae	<i>Adiantum aethiopicum</i>	None	C	None	0	3	19/04/1999
21888	Equisetopsida	Pteridaceae	<i>Adiantum atroviride</i>	None	C	None	1	2	12/12/1996
18031	Equisetopsida	Pteridaceae	<i>Adiantum hispidulum</i>	None	C	None	0	12	19/04/1999
9284	Equisetopsida	Pteridaceae	<i>Adiantum hispidulum</i> var. <i>hispidulum</i>	None	C	None	3	5	22/07/2010
9285	Equisetopsida	Pteridaceae	<i>Adiantum hispidulum</i> var. <i>hypoglucum</i>	None	C	None	1	1	24/07/2003
11756	Equisetopsida	Pteridaceae	<i>Cheilanthes</i>	None	None	None	0	2	10/09/1991
17679	Equisetopsida	Pteridaceae	<i>Cheilanthes distans</i>	bristly cloak fern	C	None	0	1	22/07/2010
8916	Equisetopsida	Pteridaceae	<i>Cheilanthes sieberi</i>	None	C	None	0	3	22/07/2010
17682	Equisetopsida	Pteridaceae	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	None	C	None	1	1	02/08/1989
11100	Equisetopsida	Pteridaceae	<i>Cheilanthes tenuifolia</i>	rock fern	C	None	0	1	19/04/1999
17396	Equisetopsida	Pteridaceae	<i>Doryopteris concolor</i>	None	C	None	1	4	22/07/2010
9723	Equisetopsida	Pteridaceae	<i>Pellaea falcata</i>	None	C	None	0	5	19/04/1999
21889	Equisetopsida	Pteridaceae	<i>Pellaea nana</i>	None	C	None	1	3	22/07/2010
9557	Equisetopsida	Putranjivaceae	<i>Drypetes deplanchei</i>	grey boxwood	C	None	2	33	21/06/2018
17622	Equisetopsida	Ranunculaceae	<i>Clematis glycinoides</i>	None	C	None	0	3	12/12/1996
16323	Equisetopsida	Ranunculaceae	<i>Ranunculus lappaceus</i>	common buttercup	C	None	1	1	31/01/1968
9659	Equisetopsida	Rhamnaceae	<i>Alphitonia excelsa</i>	soap tree	C	None	3	29	10/05/2019
13094	Equisetopsida	Rhamnaceae	<i>Pomaderris</i>	None	None	None	1	1	29/04/1995
13141	Equisetopsida	Rhamnaceae	<i>Pomaderris canescens</i>	None	C	None	2	2	29/08/1999
33130	Equisetopsida	Rhamnaceae	<i>Pomaderris</i> sp. (Mt Larcom J.Brushe JB259)	None	C	None	4	4	03/10/2012
16278	Equisetopsida	Rhamnaceae	<i>Rhamnella vitiensis</i>	None	C	None	1	1	24/04/1975
15949	Equisetopsida	Rhamnaceae	<i>Ventilago pubiflora</i>	None	C	None	0	3	19/04/1999
14129	Equisetopsida	Rhamnaceae	<i>Ziziphus mauritiana</i>	Indian jujube	None	None	5	5	14/12/2004
4134	Equisetopsida	Rhizophoraceae	<i>Ceriops australis</i>	None	C	None	2	2	03/09/1963
16284	Equisetopsida	Rhizophoraceae	<i>Rhizophora stylosa</i>	spotted mangrove	C	None	1	1	03/09/1963
21415	Equisetopsida	Ripogonaceae	<i>Ripogonum</i>	None	None	None	0	2	30/06/1994
12848	Equisetopsida	Ripogonaceae	<i>Ripogonum brevifolium</i>	small-leaved supplejack	C	None	0	2	19/04/1999
14109	Equisetopsida	Rosaceae	<i>Eriobotrya japonica</i>	loquat	None	None	1	1	16/12/2004

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16266	Equisetopsida	Rosaceae	<i>Rubus parvifolius</i>	pink-flowered native raspberry	C	None	0	1	30/06/1994
6242	Equisetopsida	Rosaceae	<i>Rubus probus</i>	None	C	None	1	3	17/04/1997
5679	Equisetopsida	Rosaceae	<i>Rubus x novus</i>	None	C	None	1	1	17/07/2006
18045	Equisetopsida	Rubiaceae	<i>Aidia racemosa</i>	None	C	None	5	12	23/02/2014
12298	Equisetopsida	Rubiaceae	<i>Coelospermum paniculatum</i> var. <i>paniculatum</i>	None	C	None	0	1	06/12/2011
5565	Equisetopsida	Rubiaceae	<i>Coelospermum reticulatum</i>	None	C	None	1	6	15/02/2018
27436	Equisetopsida	Rubiaceae	<i>Cyclophyllum coprosmoides</i>	None	C	None	0	5	19/04/1999
27437	Equisetopsida	Rubiaceae	<i>Cyclophyllum coprosmoides</i> var. <i>coprosmoides</i>	None	C	None	1	3	21/06/2018
41446	Equisetopsida	Rubiaceae	<i>Dolichocarpa coeruleascens</i>	None	C	None	1	1	26/11/2004
34578	Equisetopsida	Rubiaceae	<i>Gynochthodes canthoides</i>	None	C	None	0	3	22/07/2010
12270	Equisetopsida	Rubiaceae	<i>Ixora beckleri</i>	brown coffeewood	C	None	0	1	19/04/1999
12274	Equisetopsida	Rubiaceae	<i>Knoxia sumatrensis</i>	None	C	None	3	3	12/03/1994
16640	Equisetopsida	Rubiaceae	<i>Mitracarpus hirtus</i>	None	None	None	1	1	11/04/2006
15202	Equisetopsida	Rubiaceae	<i>Nauclea orientalis</i>	Leichhardt tree	C	None	0	1	01/12/2008
8449	Equisetopsida	Rubiaceae	<i>Oldenlandia corymbosa</i> var. <i>corymbosa</i>	None	None	None	1	1	21/05/1990
7598	Equisetopsida	Rubiaceae	<i>Pavetta australiensis</i>	None	C	None	0	4	19/04/1999
16538	Equisetopsida	Rubiaceae	<i>Pavetta australiensis</i> var. <i>australiensis</i>	None	C	None	4	4	23/02/2014
16407	Equisetopsida	Rubiaceae	<i>Pomax umbellata</i>	None	C	None	2	3	29/04/1995
16334	Equisetopsida	Rubiaceae	<i>Psychotria daphnoides</i>	None	C	None	3	11	11/07/2018
14293	Equisetopsida	Rubiaceae	<i>Psychotria loniceroides</i>	hairy psychotria	C	None	0	1	30/06/1994
29828	Equisetopsida	Rubiaceae	<i>Psydrax lamprophylla</i> forma <i>lamprophylla</i>	None	C	None	0	1	22/07/2010
29836	Equisetopsida	Rubiaceae	<i>Psydrax longipes</i>	None	C	None	3	3	24/11/1987
2399	Equisetopsida	Rubiaceae	<i>Psydrax odorata</i>	None	C	None	0	19	21/06/2018
29841	Equisetopsida	Rubiaceae	<i>Psydrax odorata</i> forma <i>australiana</i>	None	C	None	0	6	22/07/2010
29826	Equisetopsida	Rubiaceae	<i>Psydrax odorata</i> forma <i>buxifolia</i>	None	C	None	0	6	19/04/1999
29840	Equisetopsida	Rubiaceae	<i>Psydrax odorata</i> subsp. <i>australiana</i>	None	C	None	4	4	26/01/1983
29823	Equisetopsida	Rubiaceae	<i>Psydrax oleifolia</i>	None	C	None	0	1	21/06/2018
16300	Equisetopsida	Rubiaceae	<i>Richardia brasiliensis</i>	white eye	None	None	2	2	13/12/2004
16135	Equisetopsida	Rubiaceae	<i>Spermacoce brachystema</i>	None	C	None	1	1	23/11/1987
16139	Equisetopsida	Rubiaceae	<i>Spermacoce multicaulis</i>	None	C	None	2	4	22/07/2010
8461	Equisetopsida	Rubiaceae	<i>Tarenna dallachiana</i>	None	C	None	0	1	12/12/1996
15997	Equisetopsida	Rubiaceae	<i>Timonius timon</i> var. <i>timon</i>	None	C	None	0	2	12/12/1996
30694	Equisetopsida	Rubiaceae	<i>Triflorensia cameronii</i>	None	C	None	0	1	22/07/2010
30510	Equisetopsida	Rubiaceae	<i>Triflorensia ixoroides</i>	None	C	None	0	7	22/07/2010

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15871	Equisetopsida	Rutaceae	<i>Acronychia laevis</i>	glossy acronychia	C	None	1	7	22/07/2010
15872	Equisetopsida	Rutaceae	<i>Acronychia pauciflora</i>	soft acronychia	C	None	2	7	05/04/2000
11989	Equisetopsida	Rutaceae	<i>Bosistoia medicinalis</i>	None	C	None	10	15	17/08/2000
35029	Equisetopsida	Rutaceae	<i>Bosistoia pentacocca</i> subsp. <i>connaricarpa</i>	None	C	None	1	1	19/03/1989
11988	Equisetopsida	Rutaceae	<i>Bosistoia transversa</i>	three-leaved bosistoia	C	V	9	10	13/10/2008
11990	Equisetopsida	Rutaceae	<i>Bouchardatia neurococca</i>	union nut	C	None	1	3	19/04/1999
18819	Equisetopsida	Rutaceae	<i>Citrus glauca</i>	None	C	None	4	4	01/10/2012
27796	Equisetopsida	Rutaceae	<i>Coatesia paniculata</i>	None	C	None	3	12	16/10/2012
18946	Equisetopsida	Rutaceae	<i>Dinosperma erythrococcum</i>	None	C	None	1	2	22/07/2010
18945	Equisetopsida	Rutaceae	<i>Dinosperma melanophloium</i>	None	C	None	1	4	19/04/1999
11300	Equisetopsida	Rutaceae	<i>Flindersia australis</i>	crow's ash	C	None	0	6	19/04/1999
11430	Equisetopsida	Rutaceae	<i>Geijera salicifolia</i>	brush wilga	C	None	4	18	21/06/2018
9465	Equisetopsida	Rutaceae	<i>Medicosma</i>	None	None	None	0	1	22/07/2010
16677	Equisetopsida	Rutaceae	<i>Micromelum minutum</i>	clusterberry	C	None	3	10	09/04/2013
16600	Equisetopsida	Rutaceae	<i>Murraya ovatifoliolata</i>	None	C	None	2	7	22/07/2010
21837	Equisetopsida	Rutaceae	<i>Murraya paniculata</i> 'Exotica'	None	None	None	1	17	21/06/2019
16239	Equisetopsida	Rutaceae	<i>Sarcomelicope simplicifolia</i> subsp. <i>simplicifolia</i>	yellow aspen	C	None	1	3	19/04/1999
15899	Equisetopsida	Rutaceae	<i>Zanthoxylum brachyacanthum</i>	None	C	None	1	4	19/04/1999
15908	Equisetopsida	Rutaceae	<i>Zieria</i>	None	None	None	1	1	29/04/1995
28656	Equisetopsida	Rutaceae	<i>Zieria actites</i>	Mt Larcom stink bush	CR	None	6	6	19/06/2011
9449	Equisetopsida	Salicaceae	<i>Flacourtia indica</i>	None	None	None	2	2	09/09/2021
16914	Equisetopsida	Salicaceae	<i>Homalium alnifolium</i>	homalium	C	None	3	13	22/07/2010
16182	Equisetopsida	Salicaceae	<i>Scolopia braunii</i>	flintwood	C	None	0	2	19/04/1999
11250	Equisetopsida	Salicaceae	<i>Xylosma terrae-reginae</i>	xylosma	C	None	3	8	22/07/2010
17878	Equisetopsida	Salviniaceae	<i>Azolla pinnata</i>	fernny azolla	C	None	0	1	13/11/2008
16276	Equisetopsida	Salviniaceae	<i>Salvinia molesta</i>	salvinia	None	None	3	3	14/12/2004
17181	Equisetopsida	Santalaceae	<i>Exocarpos latifolius</i>	None	C	None	2	15	21/06/2018
18052	Equisetopsida	Sapindaceae	<i>Alectryon connatus</i>	grey birds-eye	C	None	5	17	21/06/2018
18054	Equisetopsida	Sapindaceae	<i>Alectryon diversifolius</i>	scrub boonaree	C	None	2	11	21/06/2018
13700	Equisetopsida	Sapindaceae	<i>Alectryon pubescens</i>	None	C	None	1	1	29/03/1989
9489	Equisetopsida	Sapindaceae	<i>Alectryon subdentatus</i>	None	C	None	0	6	21/06/2018
19727	Equisetopsida	Sapindaceae	<i>Alectryon tomentosus</i>	None	C	None	1	3	19/04/1999
17930	Equisetopsida	Sapindaceae	<i>Arytera divaricata</i>	coogera	C	None	4	13	15/02/2018
13712	Equisetopsida	Sapindaceae	<i>Atalaya calcicola</i>	None	C	None	6	12	21/06/2018
17906	Equisetopsida	Sapindaceae	<i>Atalaya hemiglaucua</i>	None	C	None	1	2	21/06/2018
13711	Equisetopsida	Sapindaceae	<i>Atalaya multiflora</i>	broad-leaved whitewood	C	None	0	4	19/04/1999
14042	Equisetopsida	Sapindaceae	<i>Atalaya rigida</i>	None	C	None	8	10	10/09/2009

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
17907	Equisetopsida	Sapindaceae	<i>Atalaya salicifolia</i>	None	C	None	1	11	22/07/2010
14777	Equisetopsida	Sapindaceae	<i>Cardiospermum halicacabum</i> var. <i>halicacabum</i>	None	None	None	1	1	14/12/2004
13684	Equisetopsida	Sapindaceae	<i>Cossinia australiana</i>	None	E	E	0	1	19/04/1999
13960	Equisetopsida	Sapindaceae	<i>Cupaniopsis</i>	None	None	None	0	1	22/07/2010
17548	Equisetopsida	Sapindaceae	<i>Cupaniopsis anacardioides</i>	tuckeroo	C	None	0	13	21/06/2018
13686	Equisetopsida	Sapindaceae	<i>Cupaniopsis parvifolia</i>	small-leaved tuckeroo	C	None	0	2	19/04/1999
14648	Equisetopsida	Sapindaceae	<i>Cupaniopsis shirleyana</i>	wedge-leaf tuckeroo	V	V	0	2	27/03/1993
33389	Equisetopsida	Sapindaceae	<i>Cupaniopsis</i> sp. (<i>Watalgan A.R.Bean 8611</i>)	None	C	None	13	13	16/12/2012
13638	Equisetopsida	Sapindaceae	<i>Cupaniopsis wadsworthii</i>	None	C	None	4	21	21/06/2018
14612	Equisetopsida	Sapindaceae	<i>Dodonaea</i>	None	None	None	0	3	09/01/1988
13649	Equisetopsida	Sapindaceae	<i>Dodonaea lanceolata</i>	None	C	None	0	1	22/07/2010
17376	Equisetopsida	Sapindaceae	<i>Dodonaea lanceolata</i> var. <i>subsessilifolia</i>	None	C	None	1	2	15/02/2018
17387	Equisetopsida	Sapindaceae	<i>Dodonaea viscosa</i> subsp. <i>burmanniana</i>	None	C	None	1	1	30/09/1973
13662	Equisetopsida	Sapindaceae	<i>Elattostachys nervosa</i>	green tamarind	C	None	0	1	22/07/2010
17339	Equisetopsida	Sapindaceae	<i>Elattostachys xylocarpa</i>	white tamarind	C	None	4	20	21/06/2018
16968	Equisetopsida	Sapindaceae	<i>Harpullia hillii</i>	None	C	None	1	8	22/07/2010
16969	Equisetopsida	Sapindaceae	<i>Harpullia pendula</i>	None	C	None	2	9	21/06/2018
16885	Equisetopsida	Sapindaceae	<i>Jagera pseudorhus</i>	None	C	None	0	5	22/07/2010
6019	Equisetopsida	Sapindaceae	<i>Jagera pseudorhus</i> var. <i>pseudorhus</i>	None	C	None	1	1	30/06/2009
14356	Equisetopsida	Sapindaceae	<i>Mischocarpus anodontus</i>	veiny pearfruit	C	None	0	1	19/04/1999
13471	Equisetopsida	Sapindaceae	<i>Serjania exarata</i>	None	None	None	1	1	24/09/1995
5422	Equisetopsida	Sapotaceae	<i>Amorphospermum antilogum</i>	None	C	None	0	1	19/04/1999
16415	Equisetopsida	Sapotaceae	<i>Planchonella cotinifolia</i> var. <i>pubescens</i>	None	C	None	4	20	22/07/2010
13125	Equisetopsida	Sapotaceae	<i>Planchonella pohlmiana</i>	None	C	None	1	10	22/07/2010
34941	Equisetopsida	Sapotaceae	<i>Pleioluma queenslandica</i>	None	C	None	1	2	04/09/1998
32249	Equisetopsida	Sapotaceae	<i>Sersalisia sericea</i>	None	C	None	0	3	19/04/1999
16205	Equisetopsida	Schizaeaceae	<i>Schizaea bifida</i>	forked comb fern	C	None	2	3	04/09/1998
17271	Equisetopsida	Scrophulariaceae	<i>Eremophila bignoniiflora</i>	eurah	C	None	1	1	20/07/1996
8631	Equisetopsida	Scrophulariaceae	<i>Eremophila debilis</i>	winter apple	C	None	3	6	22/07/2010
3377	Equisetopsida	Scrophulariaceae	<i>Eremophila deserti</i>	None	C	None	1	1	05/09/1963
17278	Equisetopsida	Scrophulariaceae	<i>Eremophila mitchellii</i>	None	C	None	1	1	31/12/1920
34086	Equisetopsida	Scrophulariaceae	<i>Eremophila</i> sp. (<i>Toomba Range J. Silcock JLS179</i>)	None	C	None	0	1	06/12/2011

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
16605	Equisetopsida	Scrophulariaceae	<i>Myoporum</i>	None	None	None	0	1	12/11/2008
16602	Equisetopsida	Scrophulariaceae	<i>Myoporum acuminatum</i>	coastal boobialla	C	None	2	4	15/02/2018
8586	Equisetopsida	Scrophulariaceae	<i>Myoporum boninense subsp. australe</i>	None	C	None	1	1	01/08/1989
24957	Equisetopsida	Semataphyllaceae	<i>Semataphyllum</i>	None	None	None	1	1	25/08/1993
18047	Equisetopsida	Simaroubaceae	<i>Ailanthus triphysa</i>	white siris	C	None	0	5	22/07/2010
33391	Equisetopsida	Simaroubaceae	<i>Samadera bidwillii</i>	None	V	V	4	4	18/05/2021
15881	Equisetopsida	Smilacaceae	<i>Smilax australis</i>	barbed-wire vine	C	None	0	19	22/07/2010
15882	Equisetopsida	Smilacaceae	<i>Smilax glycyphylla</i>	sweet sarsaparilla	C	None	1	1	17/04/1997
20368	Equisetopsida	Solanaceae	<i>Capsicum</i>	None	None	None	0	1	02/08/1996
13673	Equisetopsida	Solanaceae	<i>Capsicum frutescens</i>	None	None	None	1	2	22/07/2010
17494	Equisetopsida	Solanaceae	<i>Datura innoxia</i>	None	None	None	1	1	14/12/2004
27897	Equisetopsida	Solanaceae	<i>Lycianthes shanesii</i>	None	C	None	1	1	02/03/1997
7222	Equisetopsida	Solanaceae	<i>Nicotiana forsteri</i>	None	C	None	1	1	31/03/1920
14376	Equisetopsida	Solanaceae	<i>Nicotiana glauca</i>	tree tobacco	None	None	2	2	31/03/2004
13555	Equisetopsida	Solanaceae	<i>Physalis angulata</i>	None	None	None	2	2	16/12/2004
13557	Equisetopsida	Solanaceae	<i>Physalis peruviana</i>	None	None	None	1	2	22/07/2010
16129	Equisetopsida	Solanaceae	<i>Solanum</i>	None	None	None	0	1	10/09/1991
16157	Equisetopsida	Solanaceae	<i>Solanum americanum</i>	None	None	None	2	3	16/12/2004
16165	Equisetopsida	Solanaceae	<i>Solanum ellipticum</i>	potato bush	C	None	0	1	22/07/2010
16167	Equisetopsida	Solanaceae	<i>Solanum furfuraceum</i>	None	C	None	1	4	22/07/2010
13788	Equisetopsida	Solanaceae	<i>Solanum nigrum</i>	None	None	None	0	3	06/12/2011
16120	Equisetopsida	Solanaceae	<i>Solanum seaforthianum</i>	Brazilian nightshade	None	None	4	17	21/06/2018
16124	Equisetopsida	Solanaceae	<i>Solanum stelligerum</i>	devil's needles	C	None	2	5	19/04/1999
16126	Equisetopsida	Solanaceae	<i>Solanum torvum</i>	devil's fig	None	None	2	2	15/12/2004
6183	Equisetopsida	Sparrmanniaceae	<i>Corchorus reynoldsiae</i>	None	C	None	2	2	17/04/1997
17049	Equisetopsida	Sparrmanniaceae	<i>Grewia latifolia</i>	dysentery plant	C	None	3	28	21/06/2018
16091	Equisetopsida	Stackhousiaceae	<i>Stackhousia monogyna</i>	creamy candles	C	None	2	2	22/11/1987
12650	Equisetopsida	Sterculiaceae	<i>Brachychiton</i>	None	None	None	0	1	10/09/1991
17796	Equisetopsida	Sterculiaceae	<i>Brachychiton australis</i>	broad-leaved bottle tree	C	None	1	14	21/06/2018
17797	Equisetopsida	Sterculiaceae	<i>Brachychiton bidwillii</i>	little kurrajong	C	None	2	4	31/12/2000
19756	Equisetopsida	Sterculiaceae	<i>Brachychiton populneus</i>	None	C	None	0	2	19/04/1999
17803	Equisetopsida	Sterculiaceae	<i>Brachychiton rupestris</i>	None	C	None	1	4	21/06/2018
16103	Equisetopsida	Sterculiaceae	<i>Sterculia quadrifida</i>	peanut tree	C	None	1	15	22/07/2010
9327	Equisetopsida	Symplocaceae	<i>Symplocos stawellii</i>	None	C	None	0	1	22/07/2010

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
17927	Equisetopsida	Tectariaceae	<i>Arthropteris tenella</i>	climbing fern	C	None	1	1	17/04/1997
12527	Equisetopsida	Typhaceae	<i>Typha domingensis</i>	None	C	None	0	2	21/06/2018
15989	Equisetopsida	Typhaceae	<i>Typha orientalis</i>	broad-leaved cumbungi	C	None	1	1	16/12/2004
17955	Equisetopsida	Ulmaceae	<i>Aphananthe philippinensis</i>	None	C	None	1	4	19/04/1999
17667	Equisetopsida	Ulmaceae	<i>Celtis paniculata</i>	native celtis	C	None	0	3	19/04/1999
16011	Equisetopsida	Ulmaceae	<i>Trema tomentosa</i>	None	C	None	0	7	22/07/2010
31416	Equisetopsida	Ulmaceae	<i>Trema tomentosa</i> var. <i>aspera</i>	None	C	None	1	1	31/07/1969
14635	Equisetopsida	Urticaceae	<i>Dendrocnide photiniphylla</i>	shiny-leaved stinging tree	C	None	1	10	22/07/2010
15855	Equisetopsida	Urticaceae	<i>Pipturus argenteus</i>	white nettle	C	None	1	4	07/11/2000
14619	Equisetopsida	Verbenaceae	<i>Duranta erecta</i>	duranta	None	None	2	2	13/12/2004
34284	Equisetopsida	Verbenaceae	<i>Glandularia aristigera</i>	None	None	None	2	4	10/05/2019
20953	Equisetopsida	Verbenaceae	<i>Lantana</i>	None	None	None	1	1	26/11/2004
19905	Equisetopsida	Verbenaceae	<i>Lantana camara</i>	lantana	None	None	7	37	21/06/2019
13853	Equisetopsida	Verbenaceae	<i>Lantana montevidensis</i>	creeping lantana	None	None	3	8	10/05/2019
7796	Equisetopsida	Verbenaceae	<i>Phyla canescens</i>	None	None	None	1	1	14/12/2003
12335	Equisetopsida	Verbenaceae	<i>Stachytarpheta cayennensis</i>	None	None	None	1	1	13/12/2004
16143	Equisetopsida	Verbenaceae	<i>Stachytarpheta jamaicensis</i>	Jamaica snakeweed	None	None	2	12	10/05/2019
25819	Equisetopsida	Verbenaceae	<i>Verbena africana</i>	None	C	None	1	1	26/11/2004
32079	Equisetopsida	Verbenaceae	<i>Verbena litoralis</i> var. <i>brevibracteata</i>	None	None	None	1	1	15/12/2004
27944	Equisetopsida	Verbenaceae	<i>Verbena litoralis</i> var. <i>litoralis</i>	None	None	None	1	1	14/12/2004
41630	Equisetopsida	Violaceae	<i>Pigea stellarioides</i>	None	C	None	1	3	15/02/2018
15958	Equisetopsida	Violaceae	<i>Viola hederacea</i> subsp. <i>hederacea</i>	None	C	None	0	1	06/12/2011
14132	Equisetopsida	Viscaceae	<i>Notothixos incanus</i>	None	C	None	2	2	25/07/1993
17660	Equisetopsida	Vitaceae	<i>Cayratia acris</i>	hairy grape	C	None	3	16	22/07/2010
7604	Equisetopsida	Vitaceae	<i>Cissus cardiophylla</i>	None	C	None	1	1	31/03/1920
17646	Equisetopsida	Vitaceae	<i>Cissus hastata</i>	None	C	None	1	1	23/02/2014
17648	Equisetopsida	Vitaceae	<i>Cissus oblonga</i>	None	C	None	4	34	22/07/2010
12458	Equisetopsida	Vitaceae	<i>Cissus reniformis</i>	None	C	None	0	3	21/06/2018
17651	Equisetopsida	Vitaceae	<i>Cissus repens</i>	None	C	None	0	3	12/12/1996
31727	Equisetopsida	Vitaceae	<i>Clematicissus opaca</i>	None	C	None	1	17	22/07/2010
14151	Equisetopsida	Vitaceae	<i>Tetragium nitens</i>	shining grape	C	None	1	11	22/07/2010
15935	Equisetopsida	Xanthorrhoeaceae	<i>Xanthorrhoea</i>	None	None	None	0	1	10/09/1991
15934	Equisetopsida	Xanthorrhoeaceae	<i>Xanthorrhoea johnsonii</i>	None	C	None	0	5	15/02/2018
9156	Equisetopsida	Xanthorrhoeaceae	<i>Xanthorrhoea latifolia</i> subsp. <i>latifolia</i>	None	C	None	0	9	18/12/2013
16707	Equisetopsida	Zamiaceae	<i>Macrozamia miquelii</i>	None	C	None	7	21	15/02/2018
14844	Equisetopsida	Zingiberaceae	<i>Alpinia caerulea</i>	wild ginger	C	None	0	1	30/06/1994

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
12348	Equisetopsida	Zygophyllaceae	<i>Tribulus</i>	None	None	None	1	1	21/11/1983
14159	Equisetopsida	Zygophyllaceae	<i>Tribulus micrococcus</i>	yellow vine	C	None	1	1	31/03/1920

Table 4. Fungi recorded within the area of interest and its one kilometre buffer

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
33515	Agaricomycetes	Agaricaceae	<i>Bovista aestivalis</i>	None	C	None	1	1	31/12/1952
26226	Agaricomycetes	Agaricaceae	<i>Leucoagaricus fimetarius</i>	None	C	None	1	1	31/03/1989
25506	Agaricomycetes	Geastraceae	<i>Geastrum triplex</i>	None	C	None	1	1	31/12/1952
33490	Agaricomycetes	Polyporaceae	<i>Hexagonia hirta</i>	None	C	None	2	2	11/09/2008
28229	Agaricomycetes	Polyporaceae	<i>Loweporus tephroporus</i>	None	C	None	1	1	15/05/1990
28689	Agaricomycetes	Strophariaceae	<i>Psilocybe cubensis</i>	None	C	None	1	1	14/11/1974
23245	Lecanoromycetes	Caliciaceae	<i>Buellia</i>	None	None	None	1	1	20/08/1975
22970	Lecanoromycetes	Caliciaceae	<i>Buellia curatellae</i>	None	C	None	2	2	10/06/1975
23098	Lecanoromycetes	Caliciaceae	<i>Dirinaria confluens</i>	None	C	None	2	2	22/03/2009
24499	Lecanoromycetes	Caliciaceae	<i>Dirinaria flava</i>	None	C	None	1	1	24/06/2004
25242	Lecanoromycetes	Caliciaceae	<i>Pyxine australiensis</i>	None	C	None	1	1	24/06/2004
23198	Lecanoromycetes	Haematommataceae	<i>Haematomma</i>	None	None	None	1	1	22/03/2009
24557	Lecanoromycetes	Haematommataceae	<i>Haematomma persoonii</i>	None	C	None	1	1	10/06/1975
23232	Lecanoromycetes	Lecanoraceae	<i>Lecanora</i>	None	None	None	1	1	22/03/2009
23327	Lecanoromycetes	Ochrolechiaceae	<i>Ochrolechia</i>	None	None	None	1	1	10/06/1975
23384	Lecanoromycetes	Parmeliaceae	<i>Parmotrema</i>	None	None	None	1	1	24/06/2004
25475	Lecanoromycetes	Peltigeraceae	<i>Peltigera polydactylon</i>	None	C	None	1	1	25/05/1981
23428	Lecanoromycetes	Pertusariaceae	<i>Pertusaria</i>	None	None	None	1	1	22/03/2009
29585	Lecanoromycetes	Ramalinaceae	<i>Ramalina inflata</i> subsp. <i>inflata</i>	None	C	None	1	1	24/06/2004

Table 5. Other species recorded within the area of interest and its one kilometre buffer

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
8813	Cyanophyceae	Aphanizomenonaceae	<i>Aphanizomenon flos-aquae</i>	None	C	None	1	1	14/03/1969

Species table headings and codes

Taxon Id: Unique identifier of the taxon from the WildNet database.

NCA: Queensland conservation status of the taxon under the *Nature Conservation Act 1992* (Least Concern (C), Critically Endangered (CR), Endangered (E), Extinct (EX), Near Threatened (NT), Extinct in the Wild (PE), Special Least Concern (SL), and Vulnerable (V)).

EPBC: Australian conservation status of the taxon under the *Environment Protection and Biodiversity Conservation Act 1999* (Conservation Dependent (CD), Critically Endangered (CE), Endangered (E), Extinct (EX), Vulnerable (V), and Extinct in the Wild (XW)).

Specimens: The number of specimen-backed records of the taxon.

Records: The total number of records of the taxon.

Last record: Date of latest record of the taxon.

Links and Support

Other sites that deliver species information from the [WildNet database](#) include:

- [Species profile search](#) - access species information approved for publication including species names, statuses, notes, images, distribution maps and records
- [Species lists](#) - generate species lists for Queensland protected areas, forestry areas, local governments and areas defined using coordinates
- [Biomaps](#) - view biodiversity information, including WildNet records approved for publication, and generate reports
- [Queensland Globe](#) - view spatial information, including WildNet records approved for publication
- [Qld wildlife data API](#) - access WildNet species information approved for publication such as notes, images and records etc.
- [WetlandMaps](#) - view species records, survey locations etc. approved for publication
- [WetlandSummary](#) - view wildlife statistics, species lists for a range of area types, and access WildNet species profiles
- [WildNet wildlife records - published - Queensland](#) - spatial layer of WildNet records approved for publication generated weekly
- [Generalised distribution and densities of Queensland wildlife](#) - Queensland species distributions and densities generalised to a 10 km grid resolution
- [Conservation status of Queensland wildlife](#) - access current lists of priority species for Queensland including nomenclature and status information
- [Queensland Confidential Species](#) - the list of species flagged as confidential in the WildNet database.

Please direct queries about this report to the [WildNet Team](#).

Other useful sites for accessing Queensland biodiversity data include:

- [Useful wildlife resources](#)
- [Queensland Government Data](#)
- [Atlas of Living Australia \(ALA\)](#)
- [Online Zoological Collections of Australian Museums \(OZCAM\)](#)
- [Australia's Virtual Herbarium \(AVH\)](#)
- [Protected Matters Search Tool](#)

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EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

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[Summary](#)

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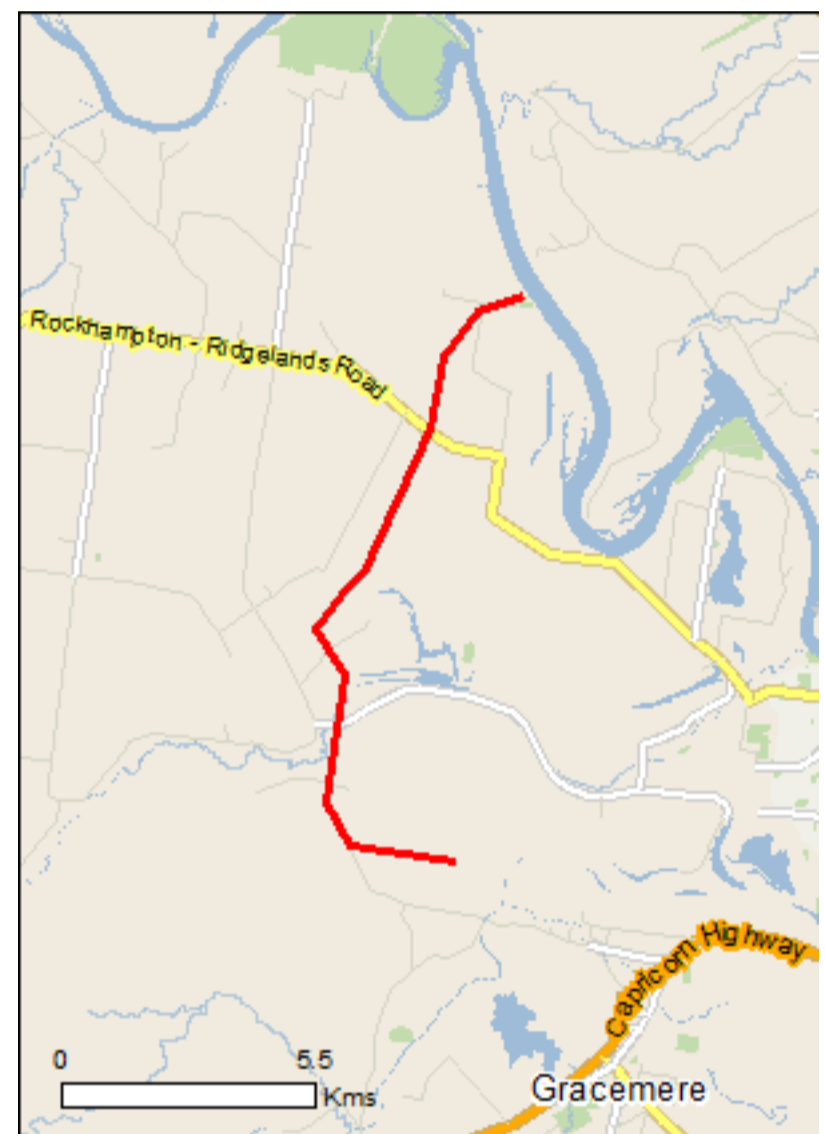
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

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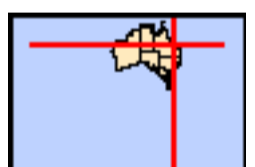
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[Buffer: 10.0Km](#)



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

World Heritage Properties:	1
National Heritage Places:	1
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	4
Listed Threatened Species:	47
Listed Migratory Species:	30

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	3
Commonwealth Heritage Places:	None
Listed Marine Species:	31
Whales and Other Cetaceans:	1
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

State and Territory Reserves:	2
Regional Forest Agreements:	None
Invasive Species:	36
Nationally Important Wetlands:	2
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

World Heritage Properties [\[Resource Information \]](#)

Name	State	Status
Great Barrier Reef	QLD	Declared property

National Heritage Properties [\[Resource Information \]](#)

Name	State	Status
Natural		
Great Barrier Reef	QLD	Listed place

Listed Threatened Ecological Communities [\[Resource Information \]](#)

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Name	Status	Type of Presence
Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions	Endangered	Community may occur within area
Poplar Box Grassy Woodland on Alluvial Plains	Endangered	Community likely to occur within area
Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions	Endangered	Community likely to occur within area
Weeping Myall Woodlands	Endangered	Community likely to occur within area

Listed Threatened Species [\[Resource Information \]](#)

Name	Status	Type of Presence
Birds		
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Cyclopsitta diophthalma coxeni Coxen's Fig-Parrot [59714]	Endangered	Species or species habitat may occur within area
Epthianura crocea macgregori Capricorn Yellow Chat, Yellow Chat (Dawson) [67090]	Critically Endangered	Species or species habitat may occur within area
Erythrorchis radiatus Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area
Geophaps scripta scripta Squatter Pigeon (southern) [64440]	Vulnerable	Species or species habitat known to occur within area
Grantiella picta Painted Honeyeater [470]	Vulnerable	Species or species

Name	Status	Type of Presence
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	habitat may occur within area Species or species habitat known to occur within area
Limosa lapponica baueri Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat may occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Neochmia ruficauda ruficauda Star Finch (eastern), Star Finch (southern) [26027]	Endangered	Species or species habitat likely to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
Poephila cincta cincta Southern Black-throated Finch [64447]	Endangered	Species or species habitat may occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Turnix melanogaster Black-breasted Button-quail [923]	Vulnerable	Species or species habitat may occur within area
Mammals		
Chalinolobus dwyeri Large-eared Pied Bat, Large Pied Bat [183]	Vulnerable	Species or species habitat may occur within area
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat likely to occur within area
Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat likely to occur within area
Nyctophilus corbeni Corben's Long-eared Bat, South-eastern Long-eared Bat [83395]	Vulnerable	Species or species habitat may occur within area
Petauroides volans Greater Glider [254]	Vulnerable	Species or species habitat likely to occur within area
Phascolarctos cinereus (combined populations of Qld, NSW and the ACT) Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Endangered	Species or species habitat likely to occur within area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Plants		
Bulbophyllum globuliforme Miniature Moss-orchid, Hoop Pine Orchid [6649]	Vulnerable	Species or species habitat may occur within area

Name	Status	Type of Presence
Cossinia australiana Cossinia [3066]	Endangered	Species or species habitat may occur within area
Cupaniopsis shirleyana Wedge-leaf Tuckerroo [3205]	Vulnerable	Species or species habitat may occur within area
Cycas megacarpa [55794]	Endangered	Species or species habitat may occur within area
Cycas ophiolitica [55797]	Endangered	Species or species habitat known to occur within area
Dichanthium setosum bluegrass [14159]	Vulnerable	Species or species habitat likely to occur within area
Eucalyptus raveretiana Black Ironbox [16344]	Vulnerable	Species or species habitat known to occur within area
Marsdenia brevifolia [64585]	Vulnerable	Species or species habitat likely to occur within area
Phaius australis Lesser Swamp-orchid [5872]	Endangered	Species or species habitat may occur within area
Samadera bidwillii Quassia [29708]	Vulnerable	Species or species habitat likely to occur within area
Reptiles		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat likely to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
Delma torquata Adorned Delma, Collared Delma [1656]	Vulnerable	Species or species habitat may occur within area
Denisonia maculata Ornamental Snake [1193]	Vulnerable	Species or species habitat known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
Egernia rugosa Yakka Skink [1420]	Vulnerable	Species or species habitat may occur within area
Elseya albagula Southern Snapping Turtle, White-throated Snapping Turtle [81648]	Critically Endangered	Species or species habitat known to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
Furina dunmalli Dunmall's Snake [59254]	Vulnerable	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat likely to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Congregation or aggregation known to occur within area
Rheodytes leukops Fitzroy River Turtle, Fitzroy Tortoise, Fitzroy Turtle, White-eyed River Diver [1761]	Vulnerable	Species or species habitat known to occur within area

Sharks

Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding may occur within area
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Listed Migratory Species

[[Resource Information](#)]

* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
Migratory Marine Birds		
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat may occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Migratory Marine Species		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat likely to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat likely to occur within area
Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat may occur within area
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Congregation or

Name	Threatened	Type of Presence
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	aggregation known to occur within area Breeding may occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Species or species habitat may occur within area
Migratory Terrestrial Species		
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area
Monarcha trivirgatus Spectacled Monarch [610]		Species or species habitat known to occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat likely to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land

[[Resource Information](#)]

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Name

Defence - LOGISTIC SUPPORT DEPOT - ROCKHAMPTON

Defence - ROCKHAMPTON AIRFIELD

Defence - ROCKHAMPTON TRAINING DEPOT

Listed Marine Species

[[Resource Information](#)]

* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat likely to occur within area
Anseranas semipalmata Magpie Goose [978]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat may occur within area
Chrysococcyx osculans Black-eared Cuckoo [705]		Species or species habitat likely to occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel	Endangered	Species or species

Name	Threatened	Type of Presence
[1060]		habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area
Monarcha trivirgatus Spectacled Monarch [610]		Species or species habitat known to occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat known to occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area
Reptiles		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat likely to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat likely to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Congregation or aggregation known to occur within area

Whales and other Cetaceans

[Resource Information]

Name	Status	Type of Presence
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Name	Status	Type of Presence
Mammals		
Sousa chinensis		
Indo-Pacific Humpback Dolphin [50]		Species or species habitat may occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Limestone Creek	QLD
Long Island Bend	QLD

Invasive Species [\[Resource Information \]](#)

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resources Audit, 2001.

Name	Status	Type of Presence
Birds		
<i>Acridotheres tristis</i>		
Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
<i>Anas platyrhynchos</i>		
Mallard [974]		Species or species habitat likely to occur within area
<i>Columba livia</i>		
Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
<i>Lonchura punctulata</i>		
Nutmeg Mannikin [399]		Species or species habitat likely to occur within area
<i>Passer domesticus</i>		
House Sparrow [405]		Species or species habitat likely to occur within area
<i>Streptopelia chinensis</i>		
Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
<i>Sturnus vulgaris</i>		
Common Starling [389]		Species or species habitat likely to occur within area

Frogs		
<i>Rhinella marina</i>		
Cane Toad [83218]		Species or species habitat known to occur within area

Mammals		
<i>Bos taurus</i>		
Domestic Cattle [16]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Lepus capensis Brown Hare [127]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Acacia nilotica subsp. indica Prickly Acacia [6196]		Species or species habitat may occur within area
Andropogon gayanus Gamba Grass [66895]		Species or species habitat likely to occur within area
Anredera cordifolia Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643]		Species or species habitat likely to occur within area
Asparagus plumosus Climbing Asparagus-fern [48993]		Species or species habitat likely to occur within area
Cryptostegia grandiflora Rubber Vine, Rubbervine, India Rubber Vine, India Rubbervine, Palay Rubbervine, Purple Allamanda [18913]		Species or species habitat likely to occur within area
Eichhornia crassipes Water Hyacinth, Water Orchid, Nile Lily [13466]		Species or species habitat likely to occur within area
Hymenachne amplexicaulis Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754]		Species or species habitat likely to occur within area
Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892] Opuntia spp. Prickly Pears [82753]		Species or species habitat likely to occur within area
Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		Species or species habitat likely to occur within area
Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566]		Species or species habitat likely to occur within area
Sagittaria platyphylla Delta Arrowhead, Arrowhead, Slender Arrowhead [68483]		Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur within area
Vachellia nilotica Prickly Acacia, Blackthorn, Prickly Mimosa, Black Piquant, Babul [84351]		Species or species habitat likely to occur within area

Reptiles

Hemidactylus frenatus Asian House Gecko [1708]		Species or species habitat likely to occur within area
Ramphotyphlops braminus Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat may occur within area

Nationally Important Wetlands

[[Resource Information](#)]

Name	State
Fitzroy River Delta	QLD
Fitzroy River Floodplain	QLD

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species distributions have been derived through a variety of methods. Where distributions are well known and if time permits, maps are derived using either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc) together with point locations and described habitat; or environmental modelling (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Coordinates

-23.2965 150.43656,-23.29921 150.42808,-23.30763 150.42089,-23.32015 150.41872,-23.34634 150.40533,-23.34995 150.40108,-23.35645 150.39627,-23.36443 150.40158,-23.38751 150.39801,-23.39501 150.4028,-23.39779 150.42354

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- [-Natural history museums of Australia](#)
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- [-Other groups and individuals](#)

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact Us](#) page.

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WildNet Records Species List

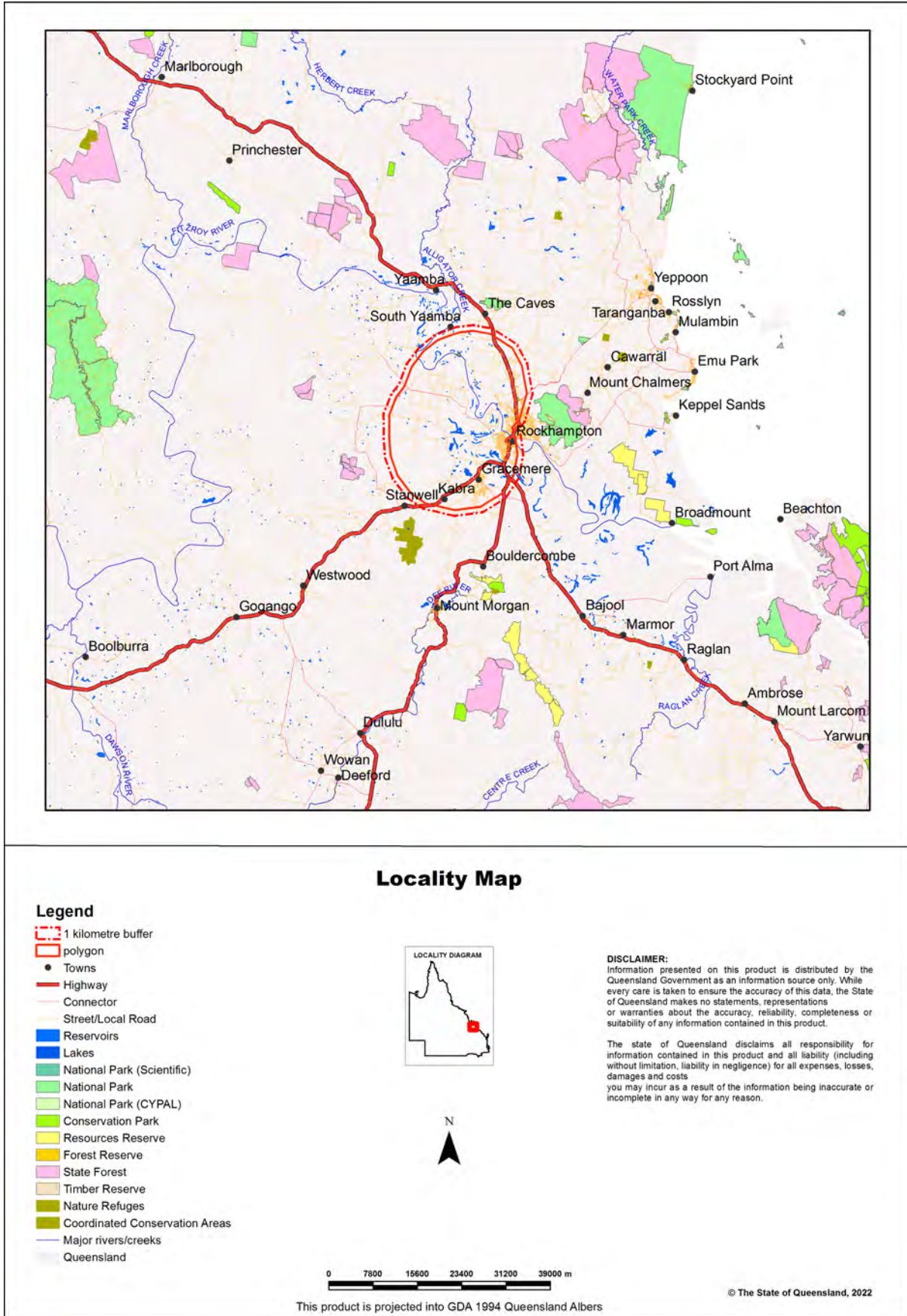


For the selected area of interest 59439.59ha

Current as at 11/03/2022

NorthernSectionSpecies

Map 1. Locality Map



Summary Information

The following table provides an overview of the area of interest .

Table 1. Area of interest details

Size (ha)	59,439.59
Local Government(s)	Livingstone Shire, Rockhampton Regional
Bioregion(s)	Brigalow Belt
Subregion(s)	Mount Morgan Ranges, Marlborough Plains
Catchment(s)	Fitzroy

Protected Area(s)

The following estates and/or reserves are located in the area of interest:

Long Island Bend Conservation Park

Limestone Creek Conservation Park

World Heritage Area(s)

The following World Heritage Areas are located in the area of interest:

Great Barrier Reef

Ramsar Area(s)

No Ramsar Areas are located within the area of interest.

Species List

Introduction

This report is derived from a spatial layer generated from the [WildNet database](#) managed by the Department of Environment and Science. The layer which is generated weekly contains the WildNet wildlife records that are not classed as erroneous or duplicate, that have a location precision equal to or less than 10000 metres and do not have a count of zero.

The WildNet dataset is constantly being enhanced and the taxonomic and status information revised. If a species is not listed in this report, it does not mean it doesn't occur there and listed species may also no longer inhabit the area. It is recommended that you also access other internal and external data sources for species information in your area of interest (Refer Links and Support).

Table 2 lists the animals recorded within the area of interest and its one kilometre buffer.

Table 3 lists the plants recorded within the area of interest and its one kilometre buffer.

Table 4 lists the fungi recorded within the area of interest and its one kilometre buffer.

Table 5 lists the other species recorded within the area of interest and its one kilometre buffer.

Table 2. Animals recorded within the area of interest and its one kilometre buffer

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
26896	Actinopterygii	Ambassidae	<i>Ambassis agassizii</i>	Agassiz's glassfish	None	None	1	12	11/04/2015
26910	Actinopterygii	Anguillidae	<i>Anguilla reinhardtii</i>	longfin eel	None	None	1	11	22/11/2014
26912	Actinopterygii	Apogonidae	<i>Glossamia aprion</i>	mouth almighty	None	None	1	5	30/04/1998
26914	Actinopterygii	Ariidae	<i>Neoarius graeffei</i>	blue catfish	None	None	0	1	31/05/2007

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
26920	Actinopterygii	Atherinidae	<i>Craterocephalus stercusmuscarum</i>	flyspecked hardyhead	None	None	0	12	11/04/2015
26922	Actinopterygii	Belontiidae	<i>Strongylura krefftii</i>	freshwater longtom	None	None	0	2	30/09/2006
26925	Actinopterygii	Centropomidae	<i>Lates calcarifer</i>	barramundi	None	None	0	4	31/05/2007
26938	Actinopterygii	Cichlidae	<i>Oreochromis mossambica</i>	Mozambique mouthbrooder	None	None	0	3	11/04/2015
26941	Actinopterygii	Clupeidae	<i>Nematalosa erebi</i>	bony bream	None	None	0	11	11/04/2015
26954	Actinopterygii	Eleotridae	<i>Hypseleotris compressa</i>	empire gudgeon	None	None	0	7	24/11/2014
26955	Actinopterygii	Eleotridae	<i>Hypseleotris galii</i>	firetail gudgeon	None	None	0	8	11/04/2015
26956	Actinopterygii	Eleotridae	<i>Hypseleotris klunzingeri</i>	western carp gudgeon	None	None	0	2	31/05/2007
18168	Actinopterygii	Eleotridae	<i>Mogurnda adspersa</i>	southern purplespotted gudgeon	None	None	0	5	20/11/2014
26965	Actinopterygii	Eleotridae	<i>Oxyeleotris lineolata</i>	sleepy cod	None	None	0	6	31/05/2007
27011	Actinopterygii	Hemiramphidae	<i>Arrhamphus sclerolepis</i>	snubnose garfish	None	None	0	1	31/12/1881
27021	Actinopterygii	Megalopidae	<i>Megalops cyprinoides</i>	oxeye herring	None	None	0	1	31/12/1979
27029	Actinopterygii	Melanotaeniidae	<i>Melanotaenia splendida splendida</i>	eastern rainbowfish	None	None	1	8	09/04/2015
27035	Actinopterygii	Mugilidae	<i>Mugil cephalus</i>	sea mullet	None	None	0	4	12/04/2014
27036	Actinopterygii	Mugilidae	<i>Trachystoma petardi</i>	pinkeye mullet	None	None	0	2	14/12/1982
27039	Actinopterygii	Osteoglossidae	<i>Scleropages leichardti</i>	southern saratoga	None	None	0	1	31/12/1990
27042	Actinopterygii	Percichthyidae	<i>Macquaria ambigua</i>	golden perch	None	None	0	1	31/12/1990
27048	Actinopterygii	Plotosidae	<i>Neosilurus hyrtlii</i>	Hyrtl's catfish	None	None	1	3	30/04/1998
27055	Actinopterygii	Poeciliidae	<i>Gambusia holbrooki</i>	mosquitofish	None	None	0	5	11/04/2015
27076	Actinopterygii	Synbranchidae	<i>Ophisternon gutturale</i>	swamp eel	None	None	0	2	31/05/2007
27083	Actinopterygii	Terapontidae	<i>Amniataba percoides</i>	barred grunter	None	None	1	8	31/05/2007
27089	Actinopterygii	Terapontidae	<i>Leiopotherapon unicolor</i>	spangled perch	None	None	0	9	09/04/2015
27094	Actinopterygii	Terapontidae	<i>Scortum hillii</i>	leathery grunter	None	None	0	3	11/04/2015
716	Amphibia	Bufonidae	<i>Rhinella marina</i>	cane toad	None	None	0	25	21/05/2019
624	Amphibia	Hylidae	<i>Cyclorana alboguttata</i>	greenstripe frog	C	None	1	6	10/01/2019
643	Amphibia	Hylidae	<i>Cyclorana brevipes</i>	superb collared frog	C	None	5	5	19/01/1970

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
620	Amphibia	Hylidae	<i>Cyclorana nova ehollandiae</i>	eastern snapping frog	C	None	4	5	31/12/2009
627	Amphibia	Hylidae	<i>Litoria caerulea</i>	common green treefrog	C	None	6	32	12/10/2019
608	Amphibia	Hylidae	<i>Litoria fallax</i>	eastern sedgefrog	C	None	7	24	07/11/2019
611	Amphibia	Hylidae	<i>Litoria gracilentia</i>	graceful treefrog	C	None	9	10	26/02/2018
612	Amphibia	Hylidae	<i>Litoria inermis</i>	bumpy rocketfrog	C	None	3	9	10/01/2019
614	Amphibia	Hylidae	<i>Litoria latopalmata</i>	broad palmed rocketfrog	C	None	0	6	02/11/2018
604	Amphibia	Hylidae	<i>Litoria nasuta</i>	striped rocketfrog	C	None	0	2	05/12/2017
599	Amphibia	Hylidae	<i>Litoria rothii</i>	northern laughing treefrog	C	None	0	1	07/08/1997
600	Amphibia	Hylidae	<i>Litoria rubella</i>	ruddy treefrog	C	None	1	11	16/12/2018
29174	Amphibia	Hylidae	<i>Litoria wilcoxii</i>	eastern stony creek frog	C	None	1	2	31/12/1870
681	Amphibia	Limnodynastidae	<i>Limnodynastes peronii</i>	striped marshfrog	C	None	3	16	05/10/2019
682	Amphibia	Limnodynastidae	<i>Limnodynastes salmini</i>	salmon striped frog	C	None	3	13	09/01/2019
684	Amphibia	Limnodynastidae	<i>Limnodynastes tasmaniensis</i>	spotted grassfrog	C	None	6	15	09/01/2019
673	Amphibia	Limnodynastidae	<i>Limnodynastes terraereginae</i>	scarlet sided pobblebonk	C	None	6	10	31/12/2009
680	Amphibia	Limnodynastidae	<i>Platyplectrum ornatum</i>	ornate burrowing frog	C	None	3	12	09/01/2019
674	Amphibia	Myobatrachidae	<i>Mixophyes fasciolatus</i>	great barred frog	C	None	0	1	24/11/2017
659	Amphibia	Myobatrachidae	<i>Pseudophryne major</i>	great brown broodfrog	C	None	5	7	16/05/2018
639	Amphibia	Myobatrachidae	<i>Uperoleia rugosa</i>	chubby gungan	C	None	5	5	31/12/1986
1419	Aves	Acanthizidae	<i>Acanthiza chrysorrhoa</i>	yellow-rumped thornbill	C	None	0	6	18/04/2013
1422	Aves	Acanthizidae	<i>Acanthiza nana</i>	yellow thornbill	C	None	0	2	12/11/2009
1423	Aves	Acanthizidae	<i>Acanthiza pusilla</i>	brown thornbill	C	None	0	1	28/06/2011
1425	Aves	Acanthizidae	<i>Acanthiza reguloides</i>	buff-rumped thornbill	C	None	0	1	12/06/2000
1396	Aves	Acanthizidae	<i>Gerygone olivacea</i>	white-throated gerygone	C	None	0	139	20/03/2015
1397	Aves	Acanthizidae	<i>Gerygone palpebrosa</i>	fairy gerygone	C	None	0	7	19/10/2018
1403	Aves	Acanthizidae	<i>Pyrrholaemus sagittatus</i>	speckled warbler	C	None	0	1	31/12/1973
1382	Aves	Acanthizidae	<i>Sericornis frontalis</i>	white-browed scrubwren	C	None	0	1	28/08/1955
1384	Aves	Acanthizidae	<i>Sericornis magnirostra</i>	large-billed scrubwren	C	None	0	1	31/12/1930
1371	Aves	Acanthizidae	<i>Sericornis brevirostris</i>	weebill	C	None	0	5	31/12/2009

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
1742	Aves	Accipitridae	<i>Accipiter cirrocephalus</i>	collared sparrowhawk	C	None	0	8	20/04/2013
1729	Aves	Accipitridae	<i>Accipiter fasciatus</i>	brown goshawk	C	None	0	7	16/06/2018
1730	Aves	Accipitridae	<i>Accipiter novae hollandiae</i>	grey goshawk	C	None	0	1	31/12/1881
1732	Aves	Accipitridae	<i>Aquila audax</i>	wedge-tailed eagle	C	None	0	61	21/06/2018
1721	Aves	Accipitridae	<i>Aviceda subcristata</i>	Pacific baza	C	None	0	12	01/04/2012
1722	Aves	Accipitridae	<i>Circus approximans</i>	swamp harrier	C	None	0	14	18/04/2013
1723	Aves	Accipitridae	<i>Circus assimilis</i>	spotted harrier	C	None	0	17	17/10/2016
1725	Aves	Accipitridae	<i>Elanus axillaris</i>	black-shouldered kite	C	None	0	34	23/05/2018
1728	Aves	Accipitridae	<i>Erythrotriorchis radiatus</i>	red goshawk	E	V	0	2	31/12/1955
1718	Aves	Accipitridae	<i>Haliaeetus leucogaster</i>	white-bellied sea-eagle	C	None	0	41	28/04/2019
1720	Aves	Accipitridae	<i>Haliastur indus</i>	brahminy kite	C	None	0	18	06/09/2015
1707	Aves	Accipitridae	<i>Haliastur sphenurus</i>	whistling kite	C	None	0	195	28/04/2019
1712	Aves	Accipitridae	<i>Lophoictinia isura</i>	square-tailed kite	C	None	0	14	23/04/2019
1714	Aves	Accipitridae	<i>Milvus migrans</i>	black kite	C	None	0	58	21/05/2019
1702	Aves	Accipitridae	<i>Pandion cristatus</i>	eastern osprey	SL	None	0	9	06/05/2017
1305	Aves	Acrocephalidae	<i>Acrocephalus australis</i>	Australian reed-warbler	C	None	0	51	28/04/2019
1973	Aves	Aegothelidae	<i>Aegotheles cristatus</i>	Australian owl-nightjar	C	None	0	3	19/03/2015
1652	Aves	Alaudidae	<i>Mirafra javanica</i>	Horsfield's bushlark	C	None	0	99	28/10/2017
1776	Aves	Alcedinidae	<i>Ceyx azureus</i>	azure kingfisher	C	None	0	5	20/10/2016
1992	Aves	Anatidae	<i>Anas castanea</i>	chestnut teal	C	None	0	9	22/04/2014
1993	Aves	Anatidae	<i>Anas gracilis</i>	grey teal	C	None	0	168	28/04/2019
1994	Aves	Anatidae	<i>Anas platyrhynchos</i>	northern mallard	None	None	0	28	23/05/2002
1998	Aves	Anatidae	<i>Anas superciliosa</i>	Pacific black duck	C	None	0	219	28/04/2019
1999	Aves	Anatidae	<i>Aythya australis</i>	hardhead	C	None	0	118	28/04/2019
2001	Aves	Anatidae	<i>Biziura lobata</i>	musk duck	C	None	0	3	31/12/1924
2003	Aves	Anatidae	<i>Chenonetta jubata</i>	Australian wood duck	C	None	0	176	28/04/2019
2005	Aves	Anatidae	<i>Cygnus atratus</i>	black swan	C	None	0	133	23/02/2019
1977	Aves	Anatidae	<i>Dendrocygna arcuata</i>	wandering whistling-duck	C	None	0	56	06/05/2017
1978	Aves	Anatidae	<i>Dendrocygna eytoni</i>	plumed whistling-duck	C	None	0	50	06/05/2017
1980	Aves	Anatidae	<i>Malacorhynchus membranaceus</i>	pink-eared duck	C	None	0	21	19/08/2018

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
1982	Aves	Anatidae	<i>Nettapus corom andelianus</i>	cotton pygmy-goose	C	None	0	122	23/02/2019
1983	Aves	Anatidae	<i>Nettapus pulchellus</i>	green pygmy-goose	C	None	0	6	20/04/2013
1989	Aves	Anatidae	<i>Radjah radjah</i>	radjah shelduck	C	None	0	4	27/04/2012
1996	Aves	Anatidae	<i>Spatula rhynchotis</i>	Australasian shoveler	C	None	0	32	28/04/2019
1987	Aves	Anatidae	<i>Stictonetta naevosa</i>	freckled duck	C	None	0	9	28/04/2019
1976	Aves	Anatidae	<i>Tadorna tadornoides</i>	Australian shelduck	C	None	0	1	31/12/1995
1279	Aves	Anhingidae	<i>Anhinga novae hollandiae</i>	Australasian darter	C	None	0	148	28/04/2019
1963	Aves	Anseranatidae	<i>Anseranas semipalmata</i>	magpie goose	C	None	0	119	06/05/2017
1965	Aves	Apodidae	<i>Apus pacificus</i>	fork-tailed swift	SL	None	0	7	23/02/2019
1971	Aves	Apodidae	<i>Hirundapus caudacutus</i>	white-throated needletail	V	V	0	3	05/12/2018
1829	Aves	Ardeidae	<i>Ardea alba modesta</i>	eastern great egret	C	None	0	136	24/06/2018
1831	Aves	Ardeidae	<i>Ardea intermedia</i>	intermediate egret	C	None	0	152	23/02/2019
1832	Aves	Ardeidae	<i>Ardea pacifica</i>	white-necked heron	C	None	1	50	11/02/2018
1835	Aves	Ardeidae	<i>Ardea sumatrana</i>	great-billed heron	C	None	0	1	02/08/1990
1830	Aves	Ardeidae	<i>Bubulcus ibis</i>	cattle egret	C	None	0	83	24/06/2018
1840	Aves	Ardeidae	<i>Egretta garzetta</i>	little egret	C	None	0	61	11/02/2018
1826	Aves	Ardeidae	<i>Egretta novaehollandiae</i>	white-faced heron	C	None	0	125	23/02/2019
1816	Aves	Ardeidae	<i>Ixobrychus dubius</i>	Australian little bittern	C	None	0	1	15/10/2013
1815	Aves	Ardeidae	<i>Ixobrychus flavicollis</i>	black bittern	C	None	0	3	26/02/2007
1818	Aves	Ardeidae	<i>Nycticorax caledonicus</i>	nankeen night-heron	C	None	1	20	07/11/2014
1658	Aves	Artamidae	<i>Artamus cinereus</i>	black-faced woodswallow	C	None	3	63	21/10/2016
1660	Aves	Artamidae	<i>Artamus leucorhynchus</i>	white-breasted woodswallow	C	None	0	39	21/05/2019
1646	Aves	Artamidae	<i>Artamus minor</i>	little woodswallow	C	None	0	2	25/05/1970
1647	Aves	Artamidae	<i>Artamus personatus</i>	masked woodswallow	C	None	0	2	29/09/2017
1649	Aves	Artamidae	<i>Artamus superciliosus</i>	white-browed woodswallow	C	None	0	4	29/09/2017
1654	Aves	Artamidae	<i>Cracticus nigrogularis</i>	piebald butcherbird	C	None	1	312	21/05/2019
1656	Aves	Artamidae	<i>Cracticus torquatus</i>	grey butcherbird	C	None	0	12	31/12/2009
1644	Aves	Artamidae	<i>Gymnorhina tibicen</i>	Australian magpie	C	None	0	319	21/05/2019

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
1645	Aves	Artamidae	<i>Strepera graculina</i>	pieb currawong	C	None	0	78	24/06/2018
1956	Aves	Burhinidae	<i>Burhinus grallarius</i>	bush stone-curlew	C	None	0	121	21/02/2019
1191	Aves	Cacatuidae	<i>Cacatua galerita</i>	sulphur-crested cockatoo	C	None	0	183	21/05/2019
1194	Aves	Cacatuidae	<i>Cacatua sanguinea</i>	little corella	C	None	0	50	28/04/2019
21967	Aves	Cacatuidae	<i>Cacatua tenuirostris</i>	long-billed corella	C	None	0	17	05/06/2006
1196	Aves	Cacatuidae	<i>Calyptorhynchus banksii</i>	red-tailed black-cockatoo	C	None	0	84	21/06/2018
1193	Aves	Cacatuidae	<i>Eolophus roseicapilla</i>	galah	C	None	0	207	21/05/2019
1192	Aves	Cacatuidae	<i>Lophochroa leadbeateri</i>	Major Mitchell's cockatoo	V	None	0	1	23/01/2000
1173	Aves	Cacatuidae	<i>Nymphicus hollandicus</i>	cockatiel	C	None	0	52	06/05/2017
1635	Aves	Campephagidae	<i>Coracina maxima</i>	ground cuckoo-shrike	C	None	0	2	04/07/2010
1636	Aves	Campephagidae	<i>Coracina novae hollandiae</i>	black-faced cuckoo-shrike	C	None	0	259	21/05/2019
1637	Aves	Campephagidae	<i>Coracina papuensis</i>	white-bellied cuckoo-shrike	C	None	0	9	29/09/2017
1639	Aves	Campephagidae	<i>Edolisoma tenuirostre</i>	common cicadabird	C	None	0	9	22/10/2016
1640	Aves	Campephagidae	<i>Lalage leucomela</i>	varied triller	C	None	0	7	01/04/2012
1642	Aves	Campephagidae	<i>Lalage tricolor</i>	white-winged triller	C	None	0	23	10/10/2017
1975	Aves	Caprimulgidae	<i>Caprimulgus macrurus</i>	large-tailed nightjar	C	None	0	2	31/08/1955
1089	Aves	Casuariidae	<i>Dromaius novaehollandiae</i>	emu	C	None	0	3	05/04/2003
18332	Aves	Charadriidae	<i>Charadrius dubius</i>	little ringed plover	SL	None	0	1	16/10/2003
1937	Aves	Charadriidae	<i>Charadrius ruficapillus</i>	red-capped plover	C	None	0	3	16/10/2003
1940	Aves	Charadriidae	<i>Elsayornis melanops</i>	black-fronted dotterel	C	None	0	73	28/04/2019
1942	Aves	Charadriidae	<i>Erythronyx cinctus</i>	red-kneed dotterel	C	None	0	27	24/06/2018
1944	Aves	Charadriidae	<i>Pluvialis fulva</i>	Pacific golden plover	SL	None	0	2	05/11/2008
27774	Aves	Charadriidae	<i>Vanellus miles</i>	masked lapwing	C	None	0	92	06/05/2017
1933	Aves	Charadriidae	<i>Vanellus miles novaehollandiae</i>	masked lapwing (southern subspecies)	C	None	0	261	28/04/2019
18143	Aves	Charadriidae	<i>Vanellus tricolor</i>	banded lapwing	C	None	0	3	04/09/1958
1820	Aves	Ciconiidae	<i>Ephippiorhynchus asiaticus</i>	black-necked stork	C	None	0	27	23/02/2019

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
1294	Aves	Cisticolidae	<i>Cisticola exilis</i>	golden-headed cisticola	C	None	0	187	11/02/2018
1295	Aves	Cisticolidae	<i>Cisticola juncidis laveryi</i>	zitting cisticola	C	None	0	4	07/11/2014
1628	Aves	Climacteridae	<i>Climacteris picumnus</i>	brown treecreeper	C	None	0	4	06/09/1955
18293	Aves	Climacteridae	<i>Cormobates leucophaea metastasis</i>	white-throated treecreeper (southern)	C	None	0	3	08/11/2014
1801	Aves	Columbidae	<i>Chalcophaps longirostris</i>	Pacific emerald dove	C	None	0	1	31/10/1924
1803	Aves	Columbidae	<i>Columba leucomela</i>	white-headed pigeon	C	None	0	1	31/08/1984
1804	Aves	Columbidae	<i>Columba livia</i>	rock dove	None	None	0	16	28/10/2017
1810	Aves	Columbidae	<i>Geopelia humeralis</i>	bar-shouldered dove	C	None	0	110	22/10/2016
18323	Aves	Columbidae	<i>Geopelia placida</i>	peaceful dove	C	None	0	253	21/05/2019
1785	Aves	Columbidae	<i>Geophaps scripta scripta</i>	squatter pigeon (southern subspecies)	V	V	2	194	18/06/2019
1787	Aves	Columbidae	<i>Leucosarcia melanoleuca</i>	wonga pigeon	C	None	0	1	31/07/1966
1789	Aves	Columbidae	<i>Lopholaimus antarcticus</i>	topknot pigeon	C	None	0	3	17/10/2016
1793	Aves	Columbidae	<i>Ocyphaps lophotes</i>	crested pigeon	C	None	0	282	28/04/2019
1795	Aves	Columbidae	<i>Phaps chalcoptera</i>	common bronzewing	C	None	0	5	31/12/1995
1774	Aves	Columbidae	<i>Streptopelia chinensis</i>	spotted dove	None	None	0	68	22/10/2016
1779	Aves	Coraciidae	<i>Eurystomus orientalis</i>	dollarbird	C	None	0	34	20/10/2016
1603	Aves	Corcoracidae	<i>Corcorax melanorhamphos</i>	white-winged cough	C	None	0	12	31/12/2009
1605	Aves	Corcoracidae	<i>Struthidea cinerea</i>	apostlebird	C	None	0	25	20/10/2016
1608	Aves	Corvidae	<i>Corvus coronoides</i>	Australian raven	C	None	0	4	03/11/2014
1609	Aves	Corvidae	<i>Corvus orru</i>	Torresian crow	C	None	0	320	21/05/2019
1754	Aves	Cuculidae	<i>Cacomantis flabelliformis</i>	fan-tailed cuckoo	C	None	0	5	04/06/2018
1750	Aves	Cuculidae	<i>Cacomantis pallidus</i>	pallid cuckoo	C	None	0	34	10/10/2017
1743	Aves	Cuculidae	<i>Cacomantis variolosus</i>	brush cuckoo	C	None	0	9	22/10/2016
1751	Aves	Cuculidae	<i>Centropus phasianinus</i>	pheasant coucal	C	None	0	194	21/06/2018
1744	Aves	Cuculidae	<i>Chalcites basalis</i>	Horsfield's bronze-cuckoo	C	None	0	43	28/10/2017
1745	Aves	Cuculidae	<i>Chalcites lucidus</i>	shining bronze-cuckoo	C	None	0	4	01/04/2012

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1746	Aves	Cuculidae	<i>Chalcites minutillus</i>	little bronze-cuckoo	C	None	0	1	30/06/2009
1756	Aves	Cuculidae	<i>Chalcites minutillus barnardi</i>	Eastern little bronze-cuckoo	C	None	0	1	17/10/2016
1738	Aves	Cuculidae	<i>Eudynamis orientalis</i>	eastern koel	C	None	0	131	11/02/2018
1740	Aves	Cuculidae	<i>Scythrops nova ehollandiae</i>	channel-billed cuckoo	C	None	2	101	22/10/2016
1601	Aves	Dicruridae	<i>Dicrurus bracteatus</i>	spangled drongo	C	None	0	31	21/06/2018
1366	Aves	Estrildidae	<i>Lonchura castaneothorax</i>	chestnut-breasted mannikin	C	None	0	22	28/10/2017
1367	Aves	Estrildidae	<i>Lonchura punctulata</i>	nutmeg mannikin	None	None	0	35	22/10/2016
1369	Aves	Estrildidae	<i>Neochmia modesta</i>	plum-headed finch	C	None	0	16	08/09/2016
19936	Aves	Estrildidae	<i>Neochmia phaeton</i>	crimson finch	C	None	0	1	31/12/1910
1357	Aves	Estrildidae	<i>Neochmia ruficauda</i>	star finch	C	None	1	5	30/11/1991
18452	Aves	Estrildidae	<i>Neochmia ruficauda ruficauda</i>	star finch (eastern subspecies)	E	E	0	1	31/12/1958
1359	Aves	Estrildidae	<i>Neochmia temporalis</i>	red-browed finch	C	None	0	5	07/08/1959
1365	Aves	Estrildidae	<i>Poephila cincta cincta</i>	black-throated finch (white-rumped subspecies)	E	E	0	2	25/08/1953
1342	Aves	Estrildidae	<i>Taeniopygia bichenovii</i>	double-barred finch	C	None	0	155	28/04/2019
1343	Aves	Estrildidae	<i>Taeniopygia guttata</i>	zebra finch	C	None	0	10	28/10/2017
1716	Aves	Falconidae	<i>Falco berigora</i>	brown falcon	C	None	0	56	26/08/2018
1704	Aves	Falconidae	<i>Falco cenchroides</i>	nankeen kestrel	C	None	0	142	26/08/2018
1691	Aves	Falconidae	<i>Falco longipennis</i>	Australian hobby	C	None	0	14	06/05/2017
1692	Aves	Falconidae	<i>Falco peregrinus</i>	peregrine falcon	C	None	0	6	26/04/2019
1693	Aves	Falconidae	<i>Falco subniger</i>	black falcon	C	None	0	1	23/02/2019
1923	Aves	Glareolidae	<i>Stiltia isabella</i>	Australian pratincole	C	None	0	2	16/10/2003
1678	Aves	Gruidae	<i>Antigone rubicunda</i>	broilga	C	None	0	21	28/10/2017
1766	Aves	Halcyonidae	<i>Dacelo leachii</i>	blue-winged kookaburra	C	None	0	109	11/02/2018
1767	Aves	Halcyonidae	<i>Dacelo novaeguineae</i>	laughing kookaburra	C	None	1	238	21/05/2019
1760	Aves	Halcyonidae	<i>Todiramphus macleayii</i>	forest kingfisher	C	None	0	99	21/06/2018
1761	Aves	Halcyonidae	<i>Todiramphus pyrrhopygius</i>	red-backed kingfisher	C	None	0	7	04/08/2013

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1762	Aves	Halcyonidae	<i>Todiramphus sanctus</i>	sacred kingfisher	C	None	0	74	24/06/2018
1759	Aves	Halcyonidae	<i>Todiramphus sordidus</i>	Torresian kingfisher	C	None	0	1	05/09/1955
1572	Aves	Hirundinidae	<i>Hirundo neoxena</i>	welcome swallow	C	None	0	95	28/04/2019
1585	Aves	Hirundinidae	<i>Petrochelidon ariel</i>	fairy martin	C	None	0	146	11/02/2018
1573	Aves	Hirundinidae	<i>Petrochelidon nigricans</i>	tree martin	C	None	0	19	11/02/2018
1928	Aves	Jacanidae	<i>Irediparra gallinacea</i>	comb-crested jacana	C	None	0	103	28/04/2019
1919	Aves	Laridae	<i>Chlidonias hybrida</i>	whiskered tern	C	None	0	47	11/02/2018
1920	Aves	Laridae	<i>Chlidonias leucopterus</i>	white-winged black tern	SL	None	0	2	31/12/1977
1912	Aves	Laridae	<i>Chroicocephalus novaehollandiae</i>	silver gull	C	None	0	10	16/10/2003
1886	Aves	Laridae	<i>Gelochelidon nilotica</i>	gull-billed tern	SL	None	0	8	19/04/2013
1896	Aves	Laridae	<i>Hydroprogne caspia</i>	Caspian tern	SL	None	0	34	28/04/2019
1913	Aves	Laridae	<i>Larus pacificus</i>	Pacific gull	C	None	0	1	31/12/1877
1905	Aves	Laridae	<i>Sterna albifrons</i>	little tern	SL	None	0	1	17/01/2003
1570	Aves	Maluridae	<i>Malurus cyaneus</i>	superb fairy-wren	C	None	0	2	05/06/2006
1556	Aves	Maluridae	<i>Malurus lamberti sensu lato</i>	variegated fairy-wren	C	None	0	1	28/08/1955
1558	Aves	Maluridae	<i>Malurus melanocephalus</i>	red-backed fairy-wren	C	None	2	238	24/06/2018
1291	Aves	Megaluridae	<i>Cincloramphus cruralis</i>	brown songlark	C	None	0	4	28/10/2017
1292	Aves	Megaluridae	<i>Cincloramphus mathewsi</i>	rufous songlark	C	None	0	5	22/04/2014
1289	Aves	Megaluridae	<i>Cincloramphus timoriensis</i>	tawny grassbird	C	None	0	18	11/02/2018
1287	Aves	Megaluridae	<i>Poodytes gramineus</i>	little grassbird	C	None	0	4	07/11/2014
1694	Aves	Megapodiidae	<i>Alectura lathami</i>	Australian brush-turkey	C	None	0	8	21/06/2018
1552	Aves	Meliphagidae	<i>Acanthagenys rufogularis</i>	spiny-cheeked honeyeater	C	None	0	4	01/09/1954
1537	Aves	Meliphagidae	<i>Conopophila rufogularis</i>	rufous-throated honeyeater	C	None	0	1	22/04/2017
1539	Aves	Meliphagidae	<i>Entomyzon cyanotis</i>	blue-faced honeyeater	C	None	3	302	21/05/2019
1528	Aves	Meliphagidae	<i>Epthianura crocea</i>	yellow chat	V	None	0	1	13/05/2010

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1524	Aves	Meliphagidae	<i>Gavicalis fasciogularis</i>	mangrove honeyeater	C	None	0	1	31/05/1980
1496	Aves	Meliphagidae	<i>Gavicalis virescens</i>	singing honeyeater	C	None	0	2	09/03/1999
1497	Aves	Meliphagidae	<i>Lichmera indistincta</i>	brown honeyeater	C	None	0	277	28/04/2019
1499	Aves	Meliphagidae	<i>Manorina flavigula</i>	yellow-throated miner	C	None	0	7	16/09/2004
1500	Aves	Meliphagidae	<i>Manorina melanocephala</i>	noisy miner	C	None	3	300	28/04/2019
1504	Aves	Meliphagidae	<i>Meliphaga lewinii</i>	Lewin's honeyeater	C	None	0	10	31/12/2009
1507	Aves	Meliphagidae	<i>Melithreptus albogularis</i>	white-throated honeyeater	C	None	0	213	28/04/2019
1508	Aves	Meliphagidae	<i>Melithreptus brevirostris</i>	brown-headed honeyeater	C	None	0	3	09/12/2018
1483	Aves	Meliphagidae	<i>Melithreptus gularis</i>	black-chinned honeyeater	C	None	0	7	27/02/2018
1485	Aves	Meliphagidae	<i>Melithreptus lunatus</i>	white-naped honeyeater	C	None	0	3	12/06/2000
1488	Aves	Meliphagidae	<i>Myzomela obscura</i>	dusky honeyeater	C	None	0	8	21/10/2016
1489	Aves	Meliphagidae	<i>Myzomela sanguinolenta</i>	scarlet honeyeater	C	None	0	9	04/06/2018
1491	Aves	Meliphagidae	<i>Philemon argenteiceps</i>	silver-crowned friarbird	C	None	0	1	31/07/1966
1492	Aves	Meliphagidae	<i>Philemon buceroides</i>	helmeted friarbird	C	None	0	1	31/12/1995
1493	Aves	Meliphagidae	<i>Philemon citreogularis</i>	little friarbird	C	None	5	223	28/04/2019
1494	Aves	Meliphagidae	<i>Philemon corniculatus</i>	noisy friarbird	C	None	0	172	28/04/2019
1471	Aves	Meliphagidae	<i>Plectorhyncha lanceolata</i>	striped honeyeater	C	None	0	7	11/02/2018
1513	Aves	Meliphagidae	<i>Ptilotula fusca</i>	fuscous honeyeater	C	None	0	2	31/12/1986
1519	Aves	Meliphagidae	<i>Ptilotula plumula</i>	grey-fronted honeyeater	C	None	0	3	31/12/1984
1473	Aves	Meliphagidae	<i>Ramsayornis fasciatus</i>	bar-breasted honeyeater	C	None	0	29	04/06/2018
1511	Aves	Meliphagidae	<i>Stomiopera flava</i>	yellow honeyeater	C	None	0	1	15/11/2000
1764	Aves	Meropidae	<i>Merops ornatus</i>	rainbow bee-eater	C	None	0	60	28/04/2019
1594	Aves	Monarchidae	<i>Carterornis leucotis</i>	white-eared monarch	C	None	0	3	31/12/1984
1589	Aves	Monarchidae	<i>Grallina cyanoleuca</i>	maggie-lark	C	None	0	348	21/05/2019
1595	Aves	Monarchidae	<i>Monarcha melanopsis</i>	black-faced monarch	SL	None	0	7	01/04/2012
1599	Aves	Monarchidae	<i>Myiagra cyanoleuca</i>	satin flycatcher	SL	None	0	1	17/05/2009

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1600	Aves	Monarchidae	<i>Myiagra inquieta</i>	restless flycatcher	C	None	0	14	06/05/2017
1586	Aves	Monarchidae	<i>Myiagra rubecula</i>	leaden flycatcher	C	None	0	31	21/10/2016
1597	Aves	Monarchidae	<i>Symposiachrus trivirgatus</i>	spectacled monarch	SL	None	0	5	13/05/2010
1455	Aves	Motacillidae	<i>Anthus novaes eelandiae</i>	Australasian pipit	C	None	0	161	28/10/2017
1451	Aves	Nectariniidae	<i>Cinnyris jugularis</i>	olive-backed sunbird	C	None	0	1	22/07/2000
1611	Aves	Nectariniidae	<i>Dicaeum hirundinaceum</i>	mistletoebird	C	None	0	122	28/04/2019
1442	Aves	Oriolidae	<i>Oriolus sagittatus</i>	olive-backed oriole	C	None	0	60	28/04/2019
1444	Aves	Oriolidae	<i>Sphecotheres vieilloti</i>	Australasian figbird	C	None	1	222	28/04/2019
1680	Aves	Otididae	<i>Ardeotis australis</i>	Australian bustard	C	None	0	27	28/04/2019
1449	Aves	Pachycephalidae	<i>Colluricincla harmonica</i>	grey shrike-thrush	C	None	0	10	22/10/2016
1450	Aves	Pachycephalidae	<i>Colluricincla megarhyncha</i>	little shrike-thrush	C	None	0	9	21/06/2018
1436	Aves	Pachycephalidae	<i>Pachycephala pectoralis</i>	golden whistler	C	None	1	4	22/07/2000
1437	Aves	Pachycephalidae	<i>Pachycephala rufiventris</i>	rufous whistler	C	None	0	95	22/10/2016
1389	Aves	Pardalotidae	<i>Pardalotus punctatus</i>	spotted pardalote	C	None	0	3	31/12/1995
1390	Aves	Pardalotidae	<i>Pardalotus rubricatus</i>	red-browed pardalote	C	None	0	2	02/01/2006
1392	Aves	Pardalotidae	<i>Pardalotus striatus</i>	striated pardalote	C	None	2	214	24/06/2018
1360	Aves	Passeridae	<i>Passer domesticus</i>	house sparrow	None	None	0	41	24/08/2005
1284	Aves	Pelecanidae	<i>Pelecanus conspicillatus</i>	Australian pelican	C	None	0	154	28/04/2019
1339	Aves	Petroicidae	<i>Microeca fascians</i>	jacky winter	C	None	0	7	31/12/1995
1261	Aves	Phalacrocoracidae	<i>Microcarbo melanoleucos</i>	little pied cormorant	C	None	0	132	28/04/2019
1275	Aves	Phalacrocoracidae	<i>Phalacrocorax carbo</i>	great cormorant	C	None	0	40	28/04/2019
1263	Aves	Phalacrocoracidae	<i>Phalacrocorax sulcirostris</i>	little black cormorant	C	None	0	144	28/04/2019
1264	Aves	Phalacrocoracidae	<i>Phalacrocorax varius</i>	pied cormorant	C	None	0	53	28/04/2019
1690	Aves	Phasianidae	<i>Pavo cristatus</i>	Indian peafowl	None	None	0	19	12/11/2009
1698	Aves	Phasianidae	<i>Synoicus chinensis</i>	king quail	C	None	0	1	23/06/1974
1687	Aves	Phasianidae	<i>Synoicus ypsilophorus</i>	brown quail	C	None	0	19	20/06/2014

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1326	Aves	Pittidae	<i>Pitta versicolor</i>	noisy pitta	C	None	0	1	31/12/1881
1955	Aves	Podargidae	<i>Podargus strigoides</i>	tawny frogmouth	C	None	0	25	21/06/2018
1271	Aves	Podicipedidae	<i>Podiceps cristatus</i>	great crested grebe	C	None	0	17	18/03/2015
1260	Aves	Podicipedidae	<i>Poliiocephalus poliocephalus</i>	hoary-headed grebe	C	None	0	4	13/05/2010
1249	Aves	Podicipedidae	<i>Tachybaptus n ovaehollandiae</i>	Australasian grebe	C	None	2	134	23/02/2019
1318	Aves	Pomatostomidae	<i>Pomatostomus temporalis</i>	grey-crowned babbler	C	None	0	219	21/06/2018
1182	Aves	Psittacidae	<i>Aprosmictus erythropterus</i>	red-winged parrot	C	None	0	165	21/06/2018
1145	Aves	Psittacidae	<i>Glossopsitta concinna</i>	musk lorikeet	C	None	0	1	18/06/2009
1151	Aves	Psittacidae	<i>Melopsittacus undulatus</i>	budgerigar	C	None	0	3	01/06/2013
1147	Aves	Psittacidae	<i>Parvipsitta pusilla</i>	little lorikeet	C	None	0	4	12/11/2009
1136	Aves	Psittacidae	<i>Platycercus adscitus</i>	pale-headed rosella	C	None	5	275	28/04/2019
21976	Aves	Psittacidae	<i>Platycercus adscitus palliceps</i>	pale-headed rosella (southern form)	C	None	0	1	03/04/2013
1124	Aves	Psittacidae	<i>Trichoglossus chlorolepidotus</i>	scaly-breasted lorikeet	C	None	2	104	28/04/2019
1125	Aves	Psittacidae	<i>Trichoglossus moluccanus</i>	rainbow lorikeet	C	None	2	336	28/04/2019
1623	Aves	Psophodidae	<i>Psophodes olivaceus</i>	eastern whipbird	C	None	0	2	31/12/1910
1682	Aves	Rallidae	<i>Amauornis moluccana</i>	pale-vented bush-hen	C	None	0	3	17/12/2017
1686	Aves	Rallidae	<i>Fulica atra</i>	Eurasian coot	C	None	0	99	28/04/2019
1673	Aves	Rallidae	<i>Gallinula tenebrosa</i>	dusky moorhen	C	None	0	138	28/04/2019
1675	Aves	Rallidae	<i>Gallirallus philippensis</i>	buff-banded rail	C	None	0	10	22/04/2014
1662	Aves	Rallidae	<i>Porphyrio melanotus</i>	purple swamphen	C	None	0	124	28/04/2019
1664	Aves	Rallidae	<i>Porzana fluminea</i>	Australian spotted crane	C	None	0	1	08/10/1994
1674	Aves	Rallidae	<i>Tribonyx ventralis</i>	black-tailed native-hen	C	None	0	4	06/10/2009
1665	Aves	Rallidae	<i>Zapornia pusilla</i>	Baillon's crane	C	None	0	2	07/10/1994
1667	Aves	Rallidae	<i>Zapornia tabuensis</i>	spotless crane	C	None	0	2	06/08/1994
1893	Aves	Recurvirostridae	<i>Himantopus himantopus</i>	black-winged stilt	C	None	0	89	28/04/2019
1881	Aves	Recurvirostridae	<i>Recurvirostra n ovaehollandiae</i>	red-necked avocet	C	None	0	22	07/11/2014

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1575	Aves	Rhipiduridae	<i>Rhipidura albiscapa</i>	grey fantail	C	None	0	82	24/06/2018
1576	Aves	Rhipiduridae	<i>Rhipidura leucophrys</i>	willie wagtail	C	None	0	305	28/04/2019
1578	Aves	Rhipiduridae	<i>Rhipidura rufifrons</i>	rufous fantail	SL	None	0	7	19/10/2018
1883	Aves	Rostratulidae	<i>Rostratula australis</i>	Australian painted-snipe	E	E	0	4	10/06/2013
1874	Aves	Scolopacidae	<i>Calidris acuminata</i>	sharp-tailed sandpiper	SL	None	0	28	06/10/2009
1878	Aves	Scolopacidae	<i>Calidris ferruginea</i>	curlew sandpiper	CR	CE	0	7	06/10/2009
1857	Aves	Scolopacidae	<i>Gallinago hardwickii</i>	Latham's snipe	SL	None	0	37	11/02/2018
1867	Aves	Scolopacidae	<i>Limosa lapponica baueri</i>	Western Alaskan bar-tailed godwit	V	V	0	4	31/12/1995
1855	Aves	Scolopacidae	<i>Limosa limosa</i>	black-tailed godwit	SL	None	0	22	28/04/2019
1844	Aves	Scolopacidae	<i>Numenius minutus</i>	little curlew	SL	None	0	1	16/10/2003
1860	Aves	Scolopacidae	<i>Tringa brevipes</i>	grey-tailed tattler	SL	None	0	1	10/10/1994
1853	Aves	Scolopacidae	<i>Tringa nebularia</i>	common greenshank	SL	None	0	6	02/01/2006
1841	Aves	Scolopacidae	<i>Tringa stagnatilis</i>	marsh sandpiper	SL	None	0	42	13/05/2010
1102	Aves	Strigidae	<i>Ninox boobook</i>	southern boobook	C	None	0	20	06/04/2015
1101	Aves	Strigidae	<i>Ninox connivens</i>	barking owl	C	None	0	2	31/12/1995
1314	Aves	Sturnidae	<i>Acridotheres tristis</i>	common myna	None	None	0	2	24/05/2018
1303	Aves	Sturnidae	<i>Sturnus vulgaris</i>	common starling	None	None	0	8	06/10/2009
1822	Aves	Threskiornithidae	<i>Platalea flavipes</i>	yellow-billed spoonbill	C	None	0	58	23/02/2019
1823	Aves	Threskiornithidae	<i>Platalea regia</i>	royal spoonbill	C	None	1	117	28/04/2019
1825	Aves	Threskiornithidae	<i>Plegadis falcinellus</i>	glossy ibis	SL	None	0	63	28/04/2019
1812	Aves	Threskiornithidae	<i>Threskiornis molucca</i>	Australian white ibis	C	None	0	141	28/04/2019
1800	Aves	Threskiornithidae	<i>Threskiornis spinicollis</i>	straw-necked ibis	C	None	0	243	11/02/2018
1276	Aves	Timaliidae	<i>Zosterops lateralis</i>	silveryeye	C	None	0	12	21/06/2018
1091	Aves	Turnicidae	<i>Turnix maculosus</i>	red-backed button-quail	C	None	0	2	23/10/2010
1092	Aves	Turnicidae	<i>Turnix melanogaster</i>	black-breasted button-quail	V	V	0	1	31/12/1910
1094	Aves	Turnicidae	<i>Turnix pyrrhotorax</i>	red-chested button-quail	C	None	0	2	30/09/1955
1081	Aves	Turnicidae	<i>Turnix varius</i>	painted button-quail	C	None	0	7	21/04/2019

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1082	Aves	Turnicidae	<i>Turnix velox</i>	little button-quail	C	None	0	1	31/12/1995
1108	Aves	Tytonidae	<i>Tyto javanica</i>	eastern barn owl	C	None	0	6	11/08/2014
19313	Insecta	Lycaenidae	<i>Lampides boeticus</i>	long-tailed pea-blue	None	None	0	1	21/06/2018
19149	Insecta	Nymphalidae	<i>Acraea andromacha andromacha</i>	glasswing	None	None	0	1	21/06/2018
19177	Insecta	Nymphalidae	<i>Danaus plexippus</i>	monarch	None	None	0	1	21/06/2018
19185	Insecta	Nymphalidae	<i>Euploea corinna</i>	common crow	None	None	0	1	21/06/2018
19163	Insecta	Nymphalidae	<i>Hypolimnys bolina nerina</i>	varied eggfly	None	None	0	1	21/06/2018
19122	Insecta	Nymphalidae	<i>Melanitis leda bankia</i>	evening brown	None	None	0	1	21/06/2018
19159	Insecta	Nymphalidae	<i>Phaedyma shepherdi shepherdi</i>	white-banded plane (southern subspecies)	None	None	0	2	17/06/2010
19086	Insecta	Pieridae	<i>Eurema hecabe</i>	large grass-yellow	None	None	0	1	21/06/2018
930	Mammalia	Acrobatidae	<i>Acrobates pygmaeus</i>	feathertail glider	C	None	0	1	31/12/1881
1084	Mammalia	Bovidae	<i>Bos taurus</i>	European cattle	None	None	0	2	30/11/1911
1067	Mammalia	Canidae	<i>Canis familiaris</i>	dog	None	None	0	2	21/06/2018
1068	Mammalia	Canidae	<i>Canis familiaris (dingo)</i>	dingo	None	None	0	3	23/05/2010
1069	Mammalia	Canidae	<i>Canis sp.</i>	None	None	None	0	1	03/04/2013
1071	Mammalia	Canidae	<i>Vulpes vulpes</i>	red fox	None	None	0	5	01/10/2017
800	Mammalia	Dasyuridae	<i>Dasyurus hallucatus</i>	northern quoll	C	E	1	4	05/04/2021
804	Mammalia	Dasyuridae	<i>Dasyurus sp.</i>	None	C	None	0	1	31/12/1881
808	Mammalia	Dasyuridae	<i>Phascogale tapoatafa tapoatafa</i>	brush-tailed phascogale	C	None	0	2	31/12/1988
810	Mammalia	Dasyuridae	<i>Planigale ingrami</i>	long-tailed planigale	C	None	0	2	19/07/2004
811	Mammalia	Dasyuridae	<i>Planigale maculata</i>	common planigale	C	None	1	4	29/02/1956
792	Mammalia	Dasyuridae	<i>Sminthopsis macroura</i>	stripe-faced dunnart	C	None	1	1	15/12/2003
1006	Mammalia	Emballonuridae	<i>Saccolaimus flaviventris</i>	yellow-bellied sheath-tail bat	C	None	0	2	31/12/2009
814	Mammalia	Equidae	<i>Equus caballus</i>	horse	None	None	0	1	31/12/1960
832	Mammalia	Leporidae	<i>Lepus europaeus</i>	European brown hare	None	None	0	4	01/10/2017
834	Mammalia	Leporidae	<i>Oryctolagus cuniculus</i>	rabbit	None	None	0	4	21/06/2018
901	Mammalia	Macropodidae	<i>Macropus giganteus</i>	eastern grey kangaroo	C	None	0	9	21/06/2018
912	Mammalia	Macropodidae	<i>Notamacropus agilis</i>	agile wallaby	C	None	0	4	01/10/2017

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
914	Mammalia	Macropodidae	<i>Notamacropus dorsalis</i>	black-striped wallaby	C	None	0	5	31/12/1995
902	Mammalia	Macropodidae	<i>Notamacropus parryi</i>	whiptail wallaby	C	None	0	3	15/12/2011
900	Mammalia	Macropodidae	<i>Petrogale herberti</i>	Herbert's rock-wallaby	C	None	0	1	30/04/1929
887	Mammalia	Macropodidae	<i>Petrogale inornata</i>	unadorned rock-wallaby	C	None	2	2	07/09/1984
896	Mammalia	Macropodidae	<i>Thylogale stigmatica</i>	red-legged pademelon	C	None	0	1	31/12/1995
885	Mammalia	Macropodidae	<i>Wallabia bicolor</i>	swamp wallaby	C	None	0	3	21/06/2018
994	Mammalia	Megadermatidae	<i>Macroderma gigas</i>	ghost bat	E	V	0	1	30/11/2006
954	Mammalia	Miniopteridae	<i>Miniopterus australis</i>	little bent-wing bat	C	None	15	25	31/10/2014
955	Mammalia	Miniopteridae	<i>Miniopterus schreibersii oceanensis</i>	eastern bent-wing bat	C	None	2	5	31/10/2014
996	Mammalia	Molossidae	<i>Chaerephon jobensis</i>	northern freetail bat	C	None	0	4	31/10/2014
998	Mammalia	Molossidae	<i>Mormopterus lumsdenae</i>	northern free-tailed bat	C	None	0	2	31/10/2014
22061	Mammalia	Molossidae	<i>Mormopterus ridei</i>	eastern free-tailed bat	C	None	0	3	31/10/2014
767	Mammalia	Muridae	<i>Hydromys chrysogaster</i>	water rat	C	None	0	9	18/03/2015
761	Mammalia	Muridae	<i>Melomys sp.</i>	None	C	None	0	1	31/12/1994
764	Mammalia	Muridae	<i>Mus musculus</i>	house mouse	None	None	0	3	31/12/2009
731	Mammalia	Muridae	<i>Rattus rattus</i>	black rat	None	None	0	1	04/06/1978
836	Mammalia	Ornithorhynchidae	<i>Ornithorhynchus anatinus</i>	platypus	SL	None	0	4	01/07/2009
784	Mammalia	Peramelidae	<i>Isoodon macrourus</i>	northern brown bandicoot	C	None	0	11	31/12/1995
36762	Mammalia	Petauridae	<i>Petaurus notatus</i>	Krefftt's glider	C	None	0	3	08/11/2014
859	Mammalia	Phalangeridae	<i>Trichosurus vulpecula</i>	common brushtail possum	C	None	0	13	20/03/2015
860	Mammalia	Phascolarctidae	<i>Phascolarctos cinereus</i>	koala	V	E	0	5	21/08/2011
862	Mammalia	Potoroidae	<i>Aepyprymnus rufescens</i>	rufous bettong	C	None	1	5	17/01/2003
851	Mammalia	Pseudocheiridae	<i>Pseudocheirus peregrinus</i>	common ringtail possum	C	None	0	2	31/12/1995
984	Mammalia	Pteropodidae	<i>Pteropus alecto</i>	black flying-fox	C	None	1	8	08/11/2014
962	Mammalia	Pteropodidae	<i>Pteropus poliocephalus</i>	grey-headed flying-fox	C	V	0	3	31/12/1995
963	Mammalia	Pteropodidae	<i>Pteropus scapulatus</i>	little red flying-fox	C	None	0	1	30/06/1949
964	Mammalia	Pteropodidae	<i>Pteropus sp.</i>	None	C	None	0	4	30/09/1936
966	Mammalia	Pteropodidae	<i>Syconycteris australis</i>	eastern blossom bat	C	None	1	1	31/12/1988

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
970	Mammalia	Rhinolophidae	<i>Rhinolophus</i> <i>sp.</i>	None	C	None	0	1	30/04/1941
1080	Mammalia	Suidae	<i>Sus scrofa</i>	pig	None	None	0	4	07/11/2014
838	Mammalia	Tachyglossidae	<i>Tachyglossus</i> <i>aculeatus</i>	short-beaked echidna	SL	None	1	13	07/01/2015
972	Mammalia	Vespertilionidae	<i>Chalinolobus</i> <i>gouldii</i>	Gould's wattled bat	C	None	0	5	31/10/2014
973	Mammalia	Vespertilionidae	<i>Chalinolobus</i> <i>morio</i>	chocolate wattled bat	C	None	0	1	31/10/2014
961	Mammalia	Vespertilionidae	<i>Chalinolobus</i> <i>nigrogriseus</i>	hoary wattled bat	C	None	0	1	31/10/2014
948	Mammalia	Vespertilionidae	<i>Chalinolobus</i> <i>picatus</i>	little pied bat	C	None	0	1	31/10/2014
952	Mammalia	Vespertilionidae	<i>Kerivoula</i> <i>papuensis</i>	golden-tipped bat	C	None	1	1	31/12/1960
22066	Mammalia	Vespertilionidae	<i>Myotis</i> <i>macropus</i>	large-footed myotis	C	None	0	1	31/12/2009
946	Mammalia	Vespertilionidae	<i>Nyctophilus</i> <i>bifax</i>	northern long-eared bat	C	None	0	1	17/01/2003
938	Mammalia	Vespertilionidae	<i>Nyctophilus</i> sp.	None	C	None	0	2	31/10/2014
945	Mammalia	Vespertilionidae	<i>Scotorepens</i> <i>balstoni</i>	inland broad-nosed bat	C	None	0	1	31/12/2009
931	Mammalia	Vespertilionidae	<i>Scotorepens</i> <i>greyii</i>	little broad-nosed bat	C	None	0	3	31/10/2014
933	Mammalia	Vespertilionidae	<i>Scotorepens</i> sp.	None	C	None	0	1	31/12/2009
934	Mammalia	Vespertilionidae	<i>Vespadelus</i> <i>baverstocki</i>	inland forest bat	C	None	0	1	31/10/2014
927	Mammalia	Vespertilionidae	<i>Vespadelus</i> sp.	None	C	None	0	2	31/10/2014
928	Mammalia	Vespertilionidae	<i>Vespadelus</i> <i>troughtoni</i>	eastern cave bat	C	None	0	1	31/12/2009
574	Reptilia	Agamidae	<i>Chlamydosaurus</i> <i>kingii</i>	frilled lizard	C	None	1	4	30/09/2017
567	Reptilia	Agamidae	<i>Diporiphora</i> <i>australis</i>	tommy roundhead	C	None	0	2	27/11/2011
554	Reptilia	Agamidae	<i>Intellagama</i> <i>lesueurii</i>	eastern water dragon	C	None	0	4	24/11/2017
556	Reptilia	Agamidae	<i>Pogona</i> <i>barbata</i>	bearded dragon	C	None	1	7	21/06/2018
537	Reptilia	Boidae	<i>Antaresia</i> <i>maculosa</i>	spotted python	C	None	1	2	27/02/2003
540	Reptilia	Boidae	<i>Aspidites</i> melan <i>ocephalus</i>	black-headed python	C	None	0	1	14/03/1994
519	Reptilia	Boidae	<i>Morelia</i> <i>spilota</i>	carpet python	C	None	1	6	24/11/2017
393	Reptilia	Carphodactylidae	<i>Nephurus</i> <i>asper</i>	spiny knob-tailed gecko	C	None	2	3	31/12/1996
62	Reptilia	Chelidae	<i>Chelodina</i> <i>expansa</i>	broad-shelled river turtle	C	None	0	1	24/11/2014

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
63	Reptilia	Chelidae	<i>Chelodina longicollis</i>	eastern snake-necked turtle	C	None	0	1	31/10/1924
30272	Reptilia	Chelidae	<i>Eseya albagula</i>	southern snapping turtle	CR	CE	0	1	30/04/1998
58	Reptilia	Chelidae	<i>Emydura macquarii krefftii</i>	Krefftt's river turtle	C	None	3	18	12/04/2015
522	Reptilia	Colubridae	<i>Boiga irregularis</i>	brown tree snake	C	None	0	4	09/02/2015
512	Reptilia	Colubridae	<i>Dendrelaphis punctulatus</i>	green tree snake	C	None	0	6	07/01/2015
508	Reptilia	Colubridae	<i>Tropidonophis mairii</i>	freshwater snake	C	None	5	13	15/12/2015
429	Reptilia	Diplodactylidae	<i>Diplodactylus vittatus</i>	wood gecko	C	None	1	1	31/12/1960
511	Reptilia	Elapidae	<i>Acanthophis antarcticus</i>	common death adder	V	None	0	1	31/12/1995
374	Reptilia	Elapidae	<i>Aipysurus laevis</i>	olive sea snake	C	None	1	1	31/12/1926
455	Reptilia	Elapidae	<i>Cryptophis boschmai</i>	Carpentaria whip snake	C	None	0	1	31/12/1992
458	Reptilia	Elapidae	<i>Cryptophis nigrostriatus</i>	black-striped snake	C	None	1	1	31/12/1860
493	Reptilia	Elapidae	<i>Demansia psammophis</i>	yellow-faced whipsnake	C	None	0	2	31/12/2009
494	Reptilia	Elapidae	<i>Demansia sp.</i>	None	C	None	0	1	15/03/2005
496	Reptilia	Elapidae	<i>Demansia vestigiata</i>	lesser black whipsnake	C	None	1	3	07/02/2015
483	Reptilia	Elapidae	<i>Denisonia maculata</i>	ornamental snake	V	V	9	11	26/05/2004
486	Reptilia	Elapidae	<i>Furina diadema</i>	red-naped snake	C	None	1	4	26/05/2004
488	Reptilia	Elapidae	<i>Furina ornata</i>	orange-naped snake	C	None	0	1	31/12/2009
476	Reptilia	Elapidae	<i>Hemiaspis damelii</i>	grey snake	E	None	2	7	11/05/2015
479	Reptilia	Elapidae	<i>Hoplocephalus bitorquatus</i>	pale-headed snake	C	None	5	5	26/05/2004
361	Reptilia	Elapidae	<i>Hydrophis elegans</i>	elegant sea snake	C	None	1	1	31/12/1926
353	Reptilia	Elapidae	<i>Hydrophis zweifeli</i>	Australian beaked sea snake	C	None	1	1	31/12/1926
470	Reptilia	Elapidae	<i>Oxyuranus scutellatus</i>	coastal taipan	C	None	1	3	31/12/1995
454	Reptilia	Elapidae	<i>Pseudonaja textilis</i>	eastern brown snake	C	None	2	9	07/01/2017
441	Reptilia	Elapidae	<i>Suta suta</i>	myall snake	C	None	1	1	28/02/1974
444	Reptilia	Elapidae	<i>Vermicella annulata</i>	bandy-bandy	C	None	0	3	23/02/2006
420	Reptilia	Gekkonidae	<i>Gehyra dubia</i>	dubious dtella	C	None	1	7	19/03/2015
411	Reptilia	Gekkonidae	<i>Hemidactylus frenatus</i>	house gecko	None	None	0	3	20/03/2015

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
413	Reptilia	Gekkonidae	<i>Heteronotia binoei</i>	Bynoe's gecko	C	None	2	9	07/02/2015
323	Reptilia	Pygopodidae	<i>Delma tincta</i>	excitable delma	C	None	1	2	04/04/2001
325	Reptilia	Pygopodidae	<i>Lialis burtonis</i>	Burton's legless lizard	C	None	1	2	26/05/2004
308	Reptilia	Scincidae	<i>Anomalopus verreauxii</i>	three-clawed worm-skink	C	None	1	1	22/03/1975
221	Reptilia	Scincidae	<i>Bellatorias frerei</i>	major skink	C	None	1	1	31/12/1860
294	Reptilia	Scincidae	<i>Carlia munda</i>	shaded-litter rainbow-skink	C	None	0	2	24/11/2017
34646	Reptilia	Scincidae	<i>Carlia pectoralis</i>	open-litter rainbow skink	C	None	0	1	31/12/2009
298	Reptilia	Scincidae	<i>Carlia rhomboidalis</i>	blue-throated rainbow-skink	C	None	0	2	31/12/1995
302	Reptilia	Scincidae	<i>Carlia schmeltzii</i>	robust rainbow-skink	C	None	2	7	14/12/2015
277	Reptilia	Scincidae	<i>Carlia vivax</i>	tussock rainbow-skink	C	None	2	4	31/12/2009
214	Reptilia	Scincidae	<i>Concinnia brachysoma</i>	northern bar-sided skink	C	None	0	1	31/12/1992
188	Reptilia	Scincidae	<i>Concinnia martini</i>	dark bar-sided skink	C	None	1	2	31/12/2009
193	Reptilia	Scincidae	<i>Concinnia tenuis</i>	bar-sided skink	C	None	2	2	31/12/1992
31896	Reptilia	Scincidae	<i>Cryptoblepharus australis</i>	inland snake-eyed skink	C	None	0	1	31/12/2009
31898	Reptilia	Scincidae	<i>Cryptoblepharus pulcher pulcher</i>	elegant snake-eyed skink	C	None	0	6	18/04/2013
274	Reptilia	Scincidae	<i>Cryptoblepharus sp.</i>	None	C	None	0	1	31/12/1885
260	Reptilia	Scincidae	<i>Cryptoblepharus virgatus sensu lato</i>	None	C	None	0	2	31/12/1995
240	Reptilia	Scincidae	<i>Ctenotus spaldingi</i>	straight-browed ctenotus	C	None	0	4	31/12/2009
243	Reptilia	Scincidae	<i>Ctenotus taeniolatus</i>	copper-tailed skink	C	None	0	3	31/12/2009
216	Reptilia	Scincidae	<i>Cyclodomorphus gerrardii</i>	pink-tongued lizard	C	None	3	5	31/01/1972
227	Reptilia	Scincidae	<i>Egernia rugosa</i>	yakka skink	V	V	0	3	31/12/1989
206	Reptilia	Scincidae	<i>Eremiascincus fasciolatus</i>	narrow-banded sand swimmer	C	None	1	3	31/12/1976
207	Reptilia	Scincidae	<i>Eremiascincus richardsonii</i>	broad-banded sand swimmer	C	None	0	1	31/12/1988
190	Reptilia	Scincidae	<i>Eulamprus quoyii</i>	eastern water skink	C	None	1	4	18/04/2013
173	Reptilia	Scincidae	<i>Glaphyromorphus punctulatus</i>	fine-spotted mulch-skink	C	None	1	3	31/12/2009
184	Reptilia	Scincidae	<i>Lampropholis delicata</i>	dark-flecked garden sunskink	C	None	1	2	31/12/1996

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
150	Reptilia	Scincidae	<i>Lygisaurus foliorum</i>	tree-base litter-skink	C	None	0	2	31/12/2009
127	Reptilia	Scincidae	<i>Menetia greyii</i>	common dwarf skink	C	None	0	1	31/12/2009
138	Reptilia	Scincidae	<i>Morethia taeniopleura</i>	fire-tailed skink	C	None	0	2	31/12/2009
317	Reptilia	Scincidae	<i>Praeteropus brevicollis</i>	short-necked worm-skink	C	None	7	8	31/12/1992
104	Reptilia	Scincidae	<i>Tiliqua scincoides</i>	eastern blue-tongued lizard	C	None	0	1	31/01/1983
108	Reptilia	Typhlopidae	<i>Anilius affinis</i>	small-headed blind snake	C	None	1	1	31/12/1866
82	Reptilia	Typhlopidae	<i>Anilius unguirostris</i>	claw-snouted blind snake	C	None	2	2	17/01/2003
69	Reptilia	Varanidae	<i>Varanus scalaris</i>	spotted tree monitor	C	None	0	1	31/12/1981
70	Reptilia	Varanidae	<i>Varanus semiremex</i>	rusty monitor	C	None	0	1	31/12/1976
60	Reptilia	Varanidae	<i>Varanus tristis</i>	black-tailed monitor	C	None	1	1	31/12/1903
61	Reptilia	Varanidae	<i>Varanus varius</i>	lace monitor	C	None	0	3	31/12/1999

Table 3. Plants recorded within the area of interest and its one kilometre buffer

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
17767	Equisetopsida	Acanthaceae	<i>Brunoniella australis</i>	blue trumpet	C	None	1	1	28/02/1931
15811	Equisetopsida	Acanthaceae	<i>Justicia betonica</i>	None	None	None	2	3	21/06/2018
33640	Equisetopsida	Acanthaceae	<i>Ruellia simplex</i>	None	None	None	2	2	13/12/2004
14976	Equisetopsida	Acanthaceae	<i>Thunbergia grandiflora</i>	sky flower	None	None	1	1	22/01/2008
14889	Equisetopsida	Agavaceae	<i>Agave sisalana</i>	sisal hemp	None	None	1	1	13/12/2004
16014	Equisetopsida	Aizoaceae	<i>Trianthema portulacastrum</i>	black pigweed	None	None	3	4	14/12/2004
11736	Equisetopsida	Amaranthaceae	<i>Alternanthera</i>	None	None	None	0	1	10/02/2009
18027	Equisetopsida	Amaranthaceae	<i>Alternanthera ficoidea</i>	None	None	None	1	1	13/12/2005
11849	Equisetopsida	Amaranthaceae	<i>Alternanthera pungens</i>	khaki weed	None	None	2	2	14/12/2004
17981	Equisetopsida	Amaranthaceae	<i>Amaranthus viridis</i>	green amaranth	None	None	3	4	14/12/2004
11728	Equisetopsida	Amaranthaceae	<i>Gomphrena</i>	None	None	None	0	1	21/06/2018
17051	Equisetopsida	Amaranthaceae	<i>Gomphrena celosioides</i>	gomphrena weed	None	None	3	3	14/12/2004
11782	Equisetopsida	Amaranthaceae	<i>Guilleminea densa</i>	small matweed	None	None	1	1	14/12/2004
17173	Equisetopsida	Anacardiaceae	<i>Euroschinus falcatus</i>	None	C	None	0	7	21/06/2018
17172	Equisetopsida	Anacardiaceae	<i>Euroschinus falcatus</i> var. <i>falcatus</i>	None	C	None	1	1	28/09/1931
16720	Equisetopsida	Anacardiaceae	<i>Mangifera indica</i>	mango	None	None	2	3	18/01/2012

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
16424	Equisetopsida	Anacardiaceae	<i>Pleiogynium timorense</i>	Burdekin plum	C	None	0	7	21/06/2018
11769	Equisetopsida	Anacardiaceae	<i>Schinus terebinthifolius</i>	None	None	None	3	6	21/06/2019
41406	Equisetopsida	Annonaceae	<i>Huberantha nitidissima</i>	None	C	None	0	4	23/06/1995
8144	Equisetopsida	Annonaceae	<i>Melodorum leichhardtii</i>	None	C	None	0	5	19/04/1999
15495	Equisetopsida	Apiaceae	<i>Cyclosporum leptophyllum</i>	None	None	None	1	1	14/12/2004
9484	Equisetopsida	Apocynaceae	<i>Alstonia constricta</i>	bitterbark	C	None	0	21	11/07/2018
19732	Equisetopsida	Apocynaceae	<i>Alyxia ruscifolia</i>	None	C	None	0	9	21/06/2018
17935	Equisetopsida	Apocynaceae	<i>Asclepias curassavica</i>	red-head cottonbush	None	None	2	3	21/06/2018
9698	Equisetopsida	Apocynaceae	<i>Carissa ovata</i>	currantbush	C	None	0	24	19/04/1999
17693	Equisetopsida	Apocynaceae	<i>Cascabela thevetia</i>	yellow oleander	None	None	4	4	14/12/2004
17710	Equisetopsida	Apocynaceae	<i>Catharanthus roseus</i>	pink periwinkle	None	None	3	3	14/12/2004
15479	Equisetopsida	Apocynaceae	<i>Cryptostegia grandiflora</i>	rubber vine	None	None	9	36	21/06/2019
36295	Equisetopsida	Apocynaceae	<i>Cynanchum viminale</i>	None	C	None	0	2	14/06/1995
35895	Equisetopsida	Apocynaceae	<i>Cynanchum viminale subsp. australe</i>	None	C	None	0	1	19/04/1999
17050	Equisetopsida	Apocynaceae	<i>Gomphocarpus physocarpus</i>	balloon cottonbush	None	None	3	4	13/12/2004
11202	Equisetopsida	Apocynaceae	<i>Hoya australis</i>	None	C	None	0	1	21/06/2018
41644	Equisetopsida	Apocynaceae	<i>Leichhardtia viridiflora subsp. viridiflora</i>	None	C	None	1	1	06/02/2000
16519	Equisetopsida	Apocynaceae	<i>Parsonsia eucalyptophylla</i>	gargaloo	C	None	1	1	13/03/2003
16525	Equisetopsida	Apocynaceae	<i>Parsonsia plaesiophylla</i>	None	C	None	0	1	19/04/1999
16526	Equisetopsida	Apocynaceae	<i>Parsonsia straminea</i>	monkey rope	C	None	0	3	21/06/2018
16527	Equisetopsida	Apocynaceae	<i>Parsonsia velutina</i>	hairy silkpod	C	None	0	1	19/04/1999
11185	Equisetopsida	Apocynaceae	<i>Rauvolfia tetraphylla</i>	None	None	None	5	5	13/02/2019
16184	Equisetopsida	Apocynaceae	<i>Secamone elliptica</i>	None	C	None	0	1	19/04/1999
16456	Equisetopsida	Araceae	<i>Pistia stratiotes</i>	water lettuce	None	None	1	1	03/06/2010
6367	Equisetopsida	Araceae	<i>Syngonium podophyllum</i>	None	None	None	1	1	14/12/2004
8462	Equisetopsida	Araliaceae	<i>Polyscias elegans</i>	celery wood	C	None	0	3	09/06/1995
14858	Equisetopsida	Arecaceae	<i>Archontophoenix cunninghamiana</i>	piccabeen palm	C	None	0	1	18/01/2012
12776	Equisetopsida	Arecaceae	<i>Livistona australis</i>	cabbage tree palm	C	None	0	1	18/01/2012
35061	Equisetopsida	Asteraceae	<i>Apowollastonia spilanthoides</i>	None	C	None	1	2	01/10/2003
7691	Equisetopsida	Asteraceae	<i>Bidens pilosa</i>	None	None	None	1	2	21/06/2018
18905	Equisetopsida	Asteraceae	<i>Calotis cuneata</i>	None	C	None	1	1	01/09/1975
15570	Equisetopsida	Asteraceae	<i>Calyptocarpus vialis</i>	creeping cinderella weed	None	None	3	3	14/12/2004
15572	Equisetopsida	Asteraceae	<i>Camptacra barbata</i>	None	C	None	2	2	26/11/2004
14001	Equisetopsida	Asteraceae	<i>Cirsium vulgare</i>	spear thistle	None	None	1	1	26/11/2004
22237	Equisetopsida	Asteraceae	<i>Cyanthillium cinereum</i>	None	C	None	1	1	13/12/2004

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15438	Equisetopsida	Asteraceae	<i>Eclipta prostrata</i>	white eclipta	None	None	2	2	14/12/2004
35896	Equisetopsida	Asteraceae	<i>Erigeron bonariensis</i>	None	None	None	1	1	26/11/2004
10959	Equisetopsida	Asteraceae	<i>Parthenium hysterophorus</i>	parthenium weed	None	None	3	3	14/12/2004
6542	Equisetopsida	Asteraceae	<i>Peripleura hispidula</i> var. <i>setosa</i>	None	C	None	1	2	01/10/2003
8407	Equisetopsida	Asteraceae	<i>Praxelis clematidea</i>	None	None	None	1	1	31/12/2016
20003	Equisetopsida	Asteraceae	<i>Schkuhria pinnata</i>	None	None	None	2	2	14/12/2004
30174	Equisetopsida	Asteraceae	<i>Senecio bristolensis</i>	None	C	None	2	2	31/12/2014
15039	Equisetopsida	Asteraceae	<i>Sonchus oleraceus</i>	common sowthistle	None	None	3	3	14/12/2004
26362	Equisetopsida	Asteraceae	<i>Sphagneticola trilobata</i>	None	None	None	1	1	14/12/2004
35909	Equisetopsida	Asteraceae	<i>Symphotrichum subulatum</i>	None	None	None	1	1	14/12/2004
5622	Equisetopsida	Asteraceae	<i>Synedrellopsis grisebachii</i>	None	None	None	2	2	09/03/2009
14987	Equisetopsida	Asteraceae	<i>Tridax procumbens</i>	tridax daisy	None	None	1	2	26/11/2004
22235	Equisetopsida	Asteraceae	<i>Xanthium occidentale</i>	None	None	None	0	2	21/06/2018
16570	Equisetopsida	Bignoniaceae	<i>Pandorea pandorana</i>	wonga vine	C	None	0	2	19/04/1999
31693	Equisetopsida	Bignoniaceae	<i>Spathodea campanulata</i> subsp. <i>nilotica</i>	None	None	None	1	1	14/12/2004
15507	Equisetopsida	Boraginaceae	<i>Cordia dichotoma</i>	None	C	None	1	10	21/06/2019
22828	Equisetopsida	Boraginaceae	<i>Cordia sinensis</i>	None	None	None	7	7	28/02/2007
15393	Equisetopsida	Boraginaceae	<i>Ehretia membranifolia</i>	weeping koda	C	None	0	21	21/06/2018
11193	Equisetopsida	Boraginaceae	<i>Heliotropium amplexicaule</i>	blue heliotrope	None	None	2	2	13/12/2004
16981	Equisetopsida	Boraginaceae	<i>Heliotropium indicum</i>	None	None	None	5	6	14/12/2004
10854	Equisetopsida	Brassicaceae	<i>Lepidium africanum</i>	common peppergrass	None	None	1	1	06/02/2019
12221	Equisetopsida	Brassicaceae	<i>Lepidium bonariense</i>	Argentine peppergrass	None	None	3	4	14/12/2004
13743	Equisetopsida	Cactaceae	<i>Acanthocereus tetragonus</i>	sword pear	None	None	1	1	21/03/2007
26344	Equisetopsida	Cactaceae	<i>Harrisia martinii</i>	None	None	None	1	2	21/06/2018
13842	Equisetopsida	Cactaceae	<i>Opuntia</i>	None	None	None	0	1	14/06/1995
9534	Equisetopsida	Cactaceae	<i>Opuntia streptacantha</i>	cardona pear	None	None	1	1	13/12/2004
19352	Equisetopsida	Cactaceae	<i>Opuntia stricta</i>	None	None	None	2	6	21/06/2018
9535	Equisetopsida	Cactaceae	<i>Opuntia tomentosa</i>	velvety tree pear	None	None	1	1	22/06/1982
13864	Equisetopsida	Campanulaceae	<i>Lobelia stenophylla</i>	None	C	None	1	1	21/06/1960
41207	Equisetopsida	Capparaceae	<i>Capparis anomala</i>	None	C	None	0	3	16/06/1995
17725	Equisetopsida	Capparaceae	<i>Capparis arborea</i>	brush caper berry	C	None	0	1	19/04/1999
13984	Equisetopsida	Capparaceae	<i>Capparis canescens</i>	None	C	None	0	2	09/06/1995
9497	Equisetopsida	Capparaceae	<i>Capparis humistrata</i>	None	E	None	1	1	31/05/1984
17726	Equisetopsida	Capparaceae	<i>Capparis lasiantha</i>	nipan	C	None	2	6	26/10/2005
13985	Equisetopsida	Capparaceae	<i>Capparis loranthifolia</i>	None	C	None	0	8	23/06/1995
17729	Equisetopsida	Capparaceae	<i>Capparis mitchellii</i>	None	C	None	0	1	07/09/1995
17730	Equisetopsida	Capparaceae	<i>Capparis ornans</i>	None	C	None	0	1	21/06/2018

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13988	Equisetopsida	Caricaceae	<i>Carica papaya</i>	pawpaw	None	None	1	1	13/12/2004
17707	Equisetopsida	Casuarinaceae	<i>Casuarina cristata</i>	belah	C	None	0	31	21/06/2018
9087	Equisetopsida	Casuarinaceae	<i>Casuarina cunninghamiana</i>	None	C	None	0	17	07/09/1995
13995	Equisetopsida	Casuarinaceae	<i>Casuarina cunninghamiana</i> subsp. <i>cunninghamiana</i>	None	C	None	0	2	21/06/2019
34775	Equisetopsida	Celastraceae	<i>Denhamia cunninghamii</i>	None	C	None	1	7	07/09/1995
34776	Equisetopsida	Celastraceae	<i>Denhamia disperma</i>	None	C	None	0	5	23/06/1995
22223	Equisetopsida	Celastraceae	<i>Elaeodendron australe</i>	None	C	None	0	9	23/06/1995
22226	Equisetopsida	Celastraceae	<i>Elaeodendron melanocarpum</i>	None	C	None	0	2	19/04/1999
15034	Equisetopsida	Celastraceae	<i>Siphonodon australis</i>	ivorywood	C	None	0	14	23/06/1995
9172	Equisetopsida	Ceratophyllaceae	<i>Ceratophyllum demersum</i>	hornwort	C	None	1	2	19/07/2011
17912	Equisetopsida	Chenopodiaceae	<i>Atriplex muelleri</i>	lagoon saltbush	C	None	0	1	21/06/2018
17684	Equisetopsida	Chenopodiaceae	<i>Chenopodium album</i>	fat-hen	None	None	1	2	16/10/2003
33463	Equisetopsida	Chenopodiaceae	<i>Dysphania ambrosioides</i>	None	None	None	1	1	13/12/2004
17372	Equisetopsida	Chenopodiaceae	<i>Einadia nutans</i> subsp. <i>linifolia</i>	None	C	None	1	1	28/02/1997
17321	Equisetopsida	Chenopodiaceae	<i>Einadia trigonos</i> subsp. <i>stellulata</i>	None	C	None	1	2	01/10/2003
41547	Equisetopsida	Cleomaceae	<i>Arivela</i>	None	None	None	1	1	01/10/2003
16028	Equisetopsida	Combretaceae	<i>Terminalia porphyrocarpa</i>	None	C	None	0	12	21/06/2018
20586	Equisetopsida	Convolvulaceae	<i>Dichondra</i>	None	None	None	1	1	14/10/2014
36245	Equisetopsida	Convolvulaceae	<i>Distimake dissectus</i>	None	None	None	3	3	26/11/2004
17176	Equisetopsida	Convolvulaceae	<i>Evolvulus alsinoides</i>	None	C	None	1	1	04/05/1975
10496	Equisetopsida	Convolvulaceae	<i>Ipomoea aquatica</i>	None	C	None	1	1	03/06/2010
9209	Equisetopsida	Convolvulaceae	<i>Ipomoea carnea</i> subsp. <i>fistulosa</i>	None	None	None	2	3	21/06/2019
16395	Equisetopsida	Convolvulaceae	<i>Polymeria calycina</i>	pink bindweed	C	None	1	1	06/02/2019
16398	Equisetopsida	Convolvulaceae	<i>Polymeria pusilla</i>	None	C	None	1	1	29/07/1974
40968	Equisetopsida	Cornaceae	<i>Alangium polyosmoides</i> subsp. <i>tomentosum</i>	None	C	None	0	1	19/04/1999
21934	Equisetopsida	Crassulaceae	<i>Bryophyllum delagoense</i>	None	None	None	2	3	21/06/2018
31058	Equisetopsida	Crassulaceae	<i>Bryophyllum x houghtonii</i>	None	None	None	2	2	13/12/2004
8445	Equisetopsida	Cycadaceae	<i>Cycas megacarpa</i>	None	E	E	0	1	23/06/1995
8437	Equisetopsida	Cycadaceae	<i>Cycas ophiolitica</i>	Marlborough blue	E	E	6	6	31/07/2010
11059	Equisetopsida	Cyperaceae	<i>Cyperus alopecuroides</i>	None	C	None	1	1	07/10/1994

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17515	Equisetopsida	Cyperaceae	<i>Cyperus difformis</i>	rice sedge	C	None	1	1	14/12/2004
11952	Equisetopsida	Cyperaceae	<i>Cyperus digitatus</i>	None	C	None	1	1	14/12/2004
14656	Equisetopsida	Cyperaceae	<i>Cyperus exaltatus</i>	tall flatsedge	C	None	1	1	27/11/2004
14657	Equisetopsida	Cyperaceae	<i>Cyperus involucratus</i>	None	None	None	0	2	21/06/2019
17478	Equisetopsida	Cyperaceae	<i>Cyperus rotundus</i>	nutgrass	None	None	1	1	10/11/1972
14667	Equisetopsida	Cyperaceae	<i>Cyperus scariosus</i>	None	C	None	1	1	01/11/2010
9816	Equisetopsida	Cyperaceae	<i>Eleocharis dietrichiana</i>	None	C	None	1	1	03/06/2010
9376	Equisetopsida	Cyperaceae	<i>Fimbristylis aestivalis</i>	None	C	None	1	1	01/11/2010
17438	Equisetopsida	Dioscoreaceae	<i>Dioscorea transversa</i>	native yam	C	None	0	1	21/06/2018
32598	Equisetopsida	Dracaenaceae	<i>Sansevieria trifasciata</i> var. <i>trifasciata</i>	None	None	None	1	1	26/11/2004
17439	Equisetopsida	Ebenaceae	<i>Diospyros australis</i>	black plum	C	None	0	3	19/04/1999
17442	Equisetopsida	Ebenaceae	<i>Diospyros fasciculosa</i>	grey ebony	C	None	0	1	19/04/1999
17443	Equisetopsida	Ebenaceae	<i>Diospyros geminata</i>	scaly ebony	C	None	0	5	21/06/2018
17445	Equisetopsida	Ebenaceae	<i>Diospyros humilis</i>	small-leaved ebony	C	None	0	29	19/04/1999
14572	Equisetopsida	Elaeocarpaceae	<i>Elaeocarpus obovatus</i>	blueberry ash	C	None	0	3	23/06/1995
24665	Equisetopsida	Entodontaceae	<i>Entodon mackaviensis</i>	None	C	None	1	1	01/07/1993
17288	Equisetopsida	Erythroxylaceae	<i>Erythroxylum australe</i>	cocaine tree	C	None	0	4	23/06/1995
18091	Equisetopsida	Euphorbiaceae	<i>Acalypha eremorum</i>	soft acalypha	C	None	0	2	21/06/2018
18050	Equisetopsida	Euphorbiaceae	<i>Alchornea ilicifolia</i>	native holly	C	None	1	4	05/04/2005
9348	Equisetopsida	Euphorbiaceae	<i>Alchornea thozetiana</i>	None	C	None	0	1	21/06/2018
14825	Equisetopsida	Euphorbiaceae	<i>Baloghia inophylla</i>	scrub bloodwood	C	None	0	5	19/04/1999
13956	Equisetopsida	Euphorbiaceae	<i>Croton acronychioides</i>	thick-leaved croton	C	None	0	2	19/04/1999
17561	Equisetopsida	Euphorbiaceae	<i>Croton insularis</i>	Queensland cascarilla	C	None	0	2	19/04/1999
17562	Equisetopsida	Euphorbiaceae	<i>Croton phebaloides</i>	narrow-leaved croton	C	None	0	1	21/06/2018
17160	Equisetopsida	Euphorbiaceae	<i>Euphorbia cyathophora</i>	dwarf poinsettia	None	None	4	7	21/06/2019
17162	Equisetopsida	Euphorbiaceae	<i>Euphorbia heterophylla</i>	None	None	None	2	2	14/12/2004
5516	Equisetopsida	Euphorbiaceae	<i>Euphorbia hirta</i>	None	None	None	3	3	13/12/2004
4734	Equisetopsida	Euphorbiaceae	<i>Euphorbia hyssopifolia</i>	None	None	None	1	1	26/11/2004
17179	Equisetopsida	Euphorbiaceae	<i>Excoecaria dallachyana</i>	scrub poison tree	C	None	0	16	19/04/1999
16841	Equisetopsida	Euphorbiaceae	<i>Jatropha gossypifolia</i>	bellyache bush	None	None	1	1	30/01/2006

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11406	Equisetopsida	Euphorbiaceae	<i>Mallotus laoxyloides</i>	green kamala	C	None	0	1	19/04/1999
16715	Equisetopsida	Euphorbiaceae	<i>Mallotus philippensis</i>	red kamala	C	None	0	26	21/06/2018
11288	Equisetopsida	Euphorbiaceae	<i>Ricinus communis</i>	castor oil bush	None	None	2	4	21/06/2019
16608	Equisetopsida	Haloragaceae	<i>Myriophyllum verrucosum</i>	water milfoil	C	None	1	1	05/04/1975
30968	Equisetopsida	Heliconiaceae	<i>Heliconia</i>	None	None	None	1	1	14/12/2004
12249	Equisetopsida	Hemerocallidaceae	<i>Dianella</i>	None	None	None	0	1	07/09/1995
17464	Equisetopsida	Hemerocallidaceae	<i>Dianella caerulea</i>	None	C	None	1	1	26/10/2005
15350	Equisetopsida	Hemerocallidaceae	<i>Geitonoplesium cymosum</i>	scrambling lily	C	None	0	1	19/04/1999
40443	Equisetopsida	Hemerocallidaceae	<i>Geitonoplesium cymosum forma album</i>	None	C	None	0	1	21/06/2018
15308	Equisetopsida	Hernandiaceae	<i>Gyrocarpus americanus</i>	None	C	None	0	1	19/04/1999
14509	Equisetopsida	Hydrocharitaceae	<i>Hydrilla verticillata</i>	hydrilla	C	None	1	1	10/06/2010
18351	Equisetopsida	Hydrocharitaceae	<i>Vallisneria nana</i>	None	C	None	1	1	10/06/2010
15618	Equisetopsida	Lamiaceae	<i>Basilicum polystachyon</i>	None	C	None	1	1	02/06/2010
17628	Equisetopsida	Lamiaceae	<i>Clerodendrum floribundum</i>	None	C	None	0	10	07/09/1995
12462	Equisetopsida	Lamiaceae	<i>Clerodendrum tomentosum</i>	None	C	None	1	2	21/06/2018
41035	Equisetopsida	Lamiaceae	<i>Coleus australis</i>	None	C	None	0	1	19/04/1999
20774	Equisetopsida	Lamiaceae	<i>Glossocarya</i>	None	None	None	0	1	07/06/1995
12435	Equisetopsida	Lamiaceae	<i>Glossocarya calcicola</i>	None	C	None	0	1	14/06/1995
17100	Equisetopsida	Lamiaceae	<i>Glossocarya hemiderma</i>	None	C	None	0	1	19/04/1999
17102	Equisetopsida	Lamiaceae	<i>Gmelina elliptica</i>	badhara bush	None	None	1	1	23/05/1972
29574	Equisetopsida	Lamiaceae	<i>Gmelina philippensis</i>	None	None	None	2	2	01/12/2005
11835	Equisetopsida	Lamiaceae	<i>Leonotis nepetifolia</i>	None	None	None	1	2	21/06/2018
18679	Equisetopsida	Lamiaceae	<i>Leucas lavandulifolia</i>	None	None	None	4	5	14/12/2004
18722	Equisetopsida	Lamiaceae	<i>Ocimum americanum</i>	None	None	None	6	7	14/12/2004
15964	Equisetopsida	Lamiaceae	<i>Vitex melicopea</i>	None	C	None	0	4	14/06/1995
11859	Equisetopsida	Lauraceae	<i>Cinnamomum camphora</i>	camphor laurel	None	None	1	1	14/12/2004
17541	Equisetopsida	Lauraceae	<i>Cryptocarya triplinervis</i>	None	C	None	0	10	19/04/1999
9129	Equisetopsida	Lauraceae	<i>Cryptocarya triplinervis var. triplinervis</i>	None	C	None	0	1	21/06/2018
11708	Equisetopsida	Laxmanniaceae	<i>Cordyline murchisoniae</i>	None	C	None	0	1	19/04/1999
40458	Equisetopsida	Laxmanniaceae	<i>Eustrephus latifolius subforma fimbriatus</i>	None	C	None	0	1	21/06/2018
12409	Equisetopsida	Laxmanniaceae	<i>Lomandra</i>	None	None	None	0	1	07/06/1995
16776	Equisetopsida	Laxmanniaceae	<i>Lomandra longifolia</i>	None	C	None	0	2	21/06/2018

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15149	Equisetopsida	Lecythidaceae	<i>Planchonia careya</i>	cockatoo apple	C	None	0	4	07/09/1995
15827	Equisetopsida	Leguminosae	<i>Acacia aulacocarpa</i>	None	C	None	0	9	07/09/1995
15796	Equisetopsida	Leguminosae	<i>Acacia decora</i>	pretty wattle	C	None	0	4	21/06/2018
21915	Equisetopsida	Leguminosae	<i>Acacia disparrima subsp. disparrima</i>	None	C	None	0	1	21/06/2018
15744	Equisetopsida	Leguminosae	<i>Acacia fasciculifera</i>	scaly bark	C	None	0	41	21/06/2018
15752	Equisetopsida	Leguminosae	<i>Acacia harpophylla</i>	brigalow	C	None	0	26	21/06/2018
15755	Equisetopsida	Leguminosae	<i>Acacia holosericea</i>	None	C	None	0	1	21/06/2018
14944	Equisetopsida	Leguminosae	<i>Acacia pendula</i>	myall	C	None	0	1	21/06/2018
15694	Equisetopsida	Leguminosae	<i>Acacia salicina</i>	doolan	C	None	0	14	21/06/2019
14891	Equisetopsida	Leguminosae	<i>Acacia spectabilis</i>	pilliga wattle	C	None	1	1	31/08/2007
31621	Equisetopsida	Leguminosae	<i>Acaciella angustissima</i>	white ball acacia	None	None	1	1	04/07/2007
15664	Equisetopsida	Leguminosae	<i>Aeschynomene indica</i>	budda pea	C	None	1	1	14/12/2004
11508	Equisetopsida	Leguminosae	<i>Albizia canescens</i>	None	C	None	0	3	23/06/1995
11510	Equisetopsida	Leguminosae	<i>Albizia lebbeck</i>	Indian siris	C	None	7	9	21/06/2019
15642	Equisetopsida	Leguminosae	<i>Archidendropsis basaltica</i>	red lancewood	C	None	0	5	23/06/1995
15609	Equisetopsida	Leguminosae	<i>Austrostenisia blackii</i>	bloodvine	C	None	0	19	21/06/2018
22773	Equisetopsida	Leguminosae	<i>Bauhinia galpinii</i>	None	None	None	1	1	13/12/2004
15579	Equisetopsida	Leguminosae	<i>Cassia fistula</i>	Indian laburnum	None	None	1	1	13/12/2004
15534	Equisetopsida	Leguminosae	<i>Cassia tomentella</i>	None	C	None	5	32	14/11/2020
15501	Equisetopsida	Leguminosae	<i>Clitoria ternatea</i>	butterfly pea	None	None	2	2	14/12/2004
14684	Equisetopsida	Leguminosae	<i>Crotalaria incana subsp. incana</i>	None	None	None	1	2	13/12/2004
14685	Equisetopsida	Leguminosae	<i>Crotalaria incana subsp. purpurascens</i>	None	None	None	1	1	14/12/2004
14687	Equisetopsida	Leguminosae	<i>Crotalaria juncea</i>	sunhemp	None	None	1	1	07/06/2009
15468	Equisetopsida	Leguminosae	<i>Crotalaria lanceolata subsp. lanceolata</i>	None	None	None	2	2	14/12/2004
5917	Equisetopsida	Leguminosae	<i>Crotalaria pallida var. obovata</i>	None	None	None	4	4	14/12/2004
5836	Equisetopsida	Leguminosae	<i>Cullen australasicum</i>	None	C	None	1	2	01/10/2003
14672	Equisetopsida	Leguminosae	<i>Dalbergia sissoo</i>	None	None	None	1	1	21/02/2015
9165	Equisetopsida	Leguminosae	<i>Delonix regia</i>	poinciana	None	None	1	1	13/12/2004
31108	Equisetopsida	Leguminosae	<i>Desmanthus permambucanus</i>	None	None	None	9	9	13/02/2019
10279	Equisetopsida	Leguminosae	<i>Desmodium macrocarpum</i>	None	C	None	1	1	20/02/2009
13037	Equisetopsida	Leguminosae	<i>Desmodium tortuosum</i>	Florida beggar-weed	None	None	1	1	26/11/2004
15334	Equisetopsida	Leguminosae	<i>Erythrina vespertilio</i>	None	C	None	0	3	07/09/1995
32528	Equisetopsida	Leguminosae	<i>Erythrina vespertilio subsp. vespertilio</i>	None	C	None	0	1	21/06/2018
9451	Equisetopsida	Leguminosae	<i>Haematoxylum campechianum</i>	logwood tree	None	None	1	1	13/12/2004
15292	Equisetopsida	Leguminosae	<i>Indigofera colutea</i>	sticky indigo	C	None	1	1	10/03/2020

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15294	Equisetopsida	Leguminosae	<i>Indigofera hirsuta</i>	hairy indigo	C	None	0	1	14/06/1995
15295	Equisetopsida	Leguminosae	<i>Indigofera linifolia</i>	None	C	None	1	1	07/06/2009
15296	Equisetopsida	Leguminosae	<i>Indigofera linnaei</i>	Birdsville indigo	C	None	1	1	04/05/1975
15299	Equisetopsida	Leguminosae	<i>Indigofera tinctoria</i>	None	None	None	3	4	14/12/2004
14445	Equisetopsida	Leguminosae	<i>Leucaena leucocephala</i>	None	None	None	0	3	21/06/2019
8865	Equisetopsida	Leguminosae	<i>Leucaena leucocephala</i> subsp. <i>glabrata</i>	None	None	None	2	2	18/12/2004
6280	Equisetopsida	Leguminosae	<i>Leucaena leucocephala</i> subsp. <i>leucocephala</i>	None	None	None	8	9	14/12/2004
18737	Equisetopsida	Leguminosae	<i>Lysiphyllum</i>	None	None	None	0	1	10/02/2009
15234	Equisetopsida	Leguminosae	<i>Lysiphyllum hookeri</i>	Queensland ebony	C	None	0	27	21/06/2018
15235	Equisetopsida	Leguminosae	<i>Macropitium atropurpureum</i>	siratro	None	None	2	5	21/06/2019
14426	Equisetopsida	Leguminosae	<i>Macropitium lathyroides</i>	None	None	None	3	4	07/06/2009
18221	Equisetopsida	Leguminosae	<i>Macropitium lathyroides</i> var. <i>semirectum</i>	None	None	None	1	1	14/12/2004
22928	Equisetopsida	Leguminosae	<i>Medicago sativa</i> subsp. <i>sativa</i>	None	None	None	1	1	26/11/2004
15205	Equisetopsida	Leguminosae	<i>Neptunia major</i>	None	C	None	1	1	22/01/2000
12761	Equisetopsida	Leguminosae	<i>Parkinsonia aculeata</i>	parkinsonia	None	None	5	7	21/06/2018
12902	Equisetopsida	Leguminosae	<i>Peltophorum pterocarpum</i>	yellow poinciana	None	None	3	5	21/06/2018
9173	Equisetopsida	Leguminosae	<i>Rhynchosia minima</i> var. <i>australis</i>	None	C	None	1	1	14/04/2002
12857	Equisetopsida	Leguminosae	<i>Schotia brachypetala</i>	kaffir bean	None	None	1	1	26/11/2004
15069	Equisetopsida	Leguminosae	<i>Senna barclayana</i>	None	C	None	4	4	06/07/2006
18867	Equisetopsida	Leguminosae	<i>Senna gaudichaudii</i>	None	C	None	0	1	01/06/1995
15073	Equisetopsida	Leguminosae	<i>Senna pendula</i> var. <i>glabrata</i>	Easter cassia	None	None	4	4	14/12/2004
13072	Equisetopsida	Leguminosae	<i>Sesbania</i>	None	None	None	0	1	10/02/2009
15079	Equisetopsida	Leguminosae	<i>Sesbania cannabina</i> var. <i>cannabina</i>	None	C	None	1	2	21/06/2018
12876	Equisetopsida	Leguminosae	<i>Stylosanthes scabra</i>	None	None	None	5	7	13/12/2004
8254	Equisetopsida	Leguminosae	<i>Swainsona queenslandica</i>	None	C	None	1	1	30/09/2001
12879	Equisetopsida	Leguminosae	<i>Tamarindus indica</i>	None	None	None	4	4	14/12/2004
33016	Equisetopsida	Leguminosae	<i>Vachellia</i>	None	None	None	1	1	24/11/2015
30907	Equisetopsida	Leguminosae	<i>Vachellia bidwillii</i>	None	C	None	3	9	14/04/2002
34112	Equisetopsida	Leguminosae	<i>Vachellia karroo</i>	karroo thorn	None	None	3	3	23/09/2020
34113	Equisetopsida	Leguminosae	<i>Vachellia nilotica</i>	prickly acacia	None	None	4	4	13/12/2004
12897	Equisetopsida	Leguminosae	<i>Vigna luteola</i>	dalrymple vigna	None	None	2	2	11/10/2004
10196	Equisetopsida	Leguminosae	<i>Vigna vexillata</i> var. <i>angustifolia</i>	None	C	None	1	1	13/03/1985
7462	Equisetopsida	Loganiaceae	<i>Strychnos psilosperma</i>	strychnine tree	C	None	0	2	19/04/1999
17988	Equisetopsida	Loranthaceae	<i>Amyema congener</i> subsp. <i>rotundifolia</i>	None	C	None	0	1	21/06/2018
17991	Equisetopsida	Loranthaceae	<i>Amyema miquelii</i>	None	C	None	1	3	21/06/2019

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13236	Equisetopsida	Loranthaceae	<i>Dendrophthoe glabrescens</i>	None	C	None	3	3	17/01/1991
22689	Equisetopsida	Lythraceae	<i>Lagerstroemia indica</i>	None	None	None	1	1	14/12/2004
18081	Equisetopsida	Malvaceae	<i>Abutilon auritum</i>	Chinese lantern	C	None	1	2	19/04/1999
31412	Equisetopsida	Malvaceae	<i>Abutilon guineense</i>	None	None	None	4	4	13/02/2019
18089	Equisetopsida	Malvaceae	<i>Abutilon oxycarpum</i>	None	C	None	0	3	19/04/1999
16955	Equisetopsida	Malvaceae	<i>Hibiscus heterophyllus</i>	None	C	None	0	10	21/06/2018
12961	Equisetopsida	Malvaceae	<i>Hibiscus rosasinensis</i>	None	None	None	1	1	14/12/2004
16959	Equisetopsida	Malvaceae	<i>Hibiscus splendens</i>	pink hibiscus	C	None	1	1	02/08/1979
33995	Equisetopsida	Malvaceae	<i>Hibiscus tridactylites</i>	None	C	None	1	1	13/02/2019
16718	Equisetopsida	Malvaceae	<i>Malvastrum americanum</i> var. <i>americanum</i>	None	None	None	1	1	01/10/2003
31326	Equisetopsida	Malvaceae	<i>Malvastrum coromandelianum</i> subsp. <i>coromandelianum</i>	None	None	None	1	2	21/06/2018
16151	Equisetopsida	Malvaceae	<i>Sida</i>	None	None	None	0	1	01/10/2003
34055	Equisetopsida	Malvaceae	<i>Sida ciliaris</i>	None	None	None	1	1	19/02/2019
16195	Equisetopsida	Malvaceae	<i>Sida cordifolia</i>	None	None	None	1	3	01/10/2003
22198	Equisetopsida	Malvaceae	<i>Sida hackettiana</i> subsp. (Gayndah P.Grimshaw+ PG2388)	None	C	None	0	2	21/06/2019
16146	Equisetopsida	Malvaceae	<i>Sida rhombifolia</i>	None	None	None	0	1	14/06/1995
16148	Equisetopsida	Malvaceae	<i>Sida spinosa</i>	spiny sida	None	None	3	3	14/12/2004
16724	Equisetopsida	Marsileaceae	<i>Marsilea</i>	None	None	None	2	2	05/06/2010
15289	Equisetopsida	Martyniaceae	<i>Ibicella lutea</i>	None	None	None	1	1	26/11/2004
15238	Equisetopsida	Martyniaceae	<i>Martynia annua</i>	small-fruited devil's claw	None	None	1	1	25/03/1974
17362	Equisetopsida	Meliaceae	<i>Dysoxylum gaudichaudianum</i>	ivory mahogany	C	None	1	3	19/04/1999
16661	Equisetopsida	Meliaceae	<i>Melia azedarach</i>	white cedar	C	None	0	7	21/06/2018
16559	Equisetopsida	Meliaceae	<i>Owenia venosa</i>	crow's apple	C	None	0	8	23/06/1995
15987	Equisetopsida	Meliaceae	<i>Turraea pubescens</i>	native honeysuckle	C	None	0	1	19/04/1999
14323	Equisetopsida	Menispermaceae	<i>Pleogyne australis</i>	wiry grape	C	None	0	1	19/04/1999
14327	Equisetopsida	Menyanthaceae	<i>Nymphoides indica</i>	water snowflake	C	None	0	1	10/02/2009
12433	Equisetopsida	Molluginaceae	<i>Glinus lotoides</i>	hairy carpet weed	C	None	3	4	07/11/2011
17158	Equisetopsida	Moraceae	<i>Ficus</i>	None	None	None	0	1	18/01/2012
17143	Equisetopsida	Moraceae	<i>Ficus obliqua</i>	None	C	None	1	11	07/11/2000
17144	Equisetopsida	Moraceae	<i>Ficus opposita</i>	None	C	None	0	34	21/06/2018
8827	Equisetopsida	Moraceae	<i>Ficus racemosa</i> var. <i>racemosa</i>	None	C	None	0	5	21/06/2019
13340	Equisetopsida	Moraceae	<i>Ficus rubiginosa</i>	Port Jackson fig	C	None	0	2	21/06/2019
17155	Equisetopsida	Moraceae	<i>Ficus virens</i>	None	C	None	0	2	16/06/1995
17154	Equisetopsida	Moraceae	<i>Ficus virens</i> var. <i>virens</i>	None	C	None	1	2	21/06/2018

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13303	Equisetopsida	Moraceae	<i>Morus alba</i>	white mulberry	None	None	1	1	14/12/2004
9118	Equisetopsida	Moraceae	<i>Streblus brunonianus</i>	whalebone tree	C	None	0	10	19/04/1999
6402	Equisetopsida	Moraceae	<i>Trophis scandens subsp. scandens</i>	None	C	None	0	13	21/06/2019
30309	Equisetopsida	Myrsinaceae	<i>Myrsine variabilis</i>	None	C	None	0	5	11/07/2018
13321	Equisetopsida	Myrtaceae	<i>Backhousia kingii</i>	None	C	None	0	1	16/06/1995
6534	Equisetopsida	Myrtaceae	<i>Corymbia clarksoniana</i>	None	C	None	0	1	21/06/2018
8866	Equisetopsida	Myrtaceae	<i>Corymbia dallachiana</i>	None	C	None	0	11	21/06/2018
6574	Equisetopsida	Myrtaceae	<i>Corymbia erythrophloia</i>	variable-barke d bloodwood	C	None	1	7	07/09/1995
6532	Equisetopsida	Myrtaceae	<i>Corymbia polycarpa</i>	long-fruited bloodwood	C	None	0	1	01/06/1995
6572	Equisetopsida	Myrtaceae	<i>Corymbia tessellaris</i>	Moreton Bay ash	C	None	0	23	21/06/2019
6418	Equisetopsida	Myrtaceae	<i>Corymbia torelliana</i>	cadaghi	C	None	0	1	21/06/2018
9374	Equisetopsida	Myrtaceae	<i>Eucalyptus coolabah</i>	coolabah	C	None	0	10	21/06/2018
17252	Equisetopsida	Myrtaceae	<i>Eucalyptus crebra</i>	narrow-leaved red ironbark	C	None	3	20	21/06/2018
17221	Equisetopsida	Myrtaceae	<i>Eucalyptus melanophloia</i>	None	C	None	0	4	07/09/1995
17188	Equisetopsida	Myrtaceae	<i>Eucalyptus populnea</i>	poplar box	C	None	0	5	07/09/1995
14554	Equisetopsida	Myrtaceae	<i>Eucalyptus raveretiana</i>	black ironbox	C	V	2	20	05/12/2013
17204	Equisetopsida	Myrtaceae	<i>Eucalyptus tereticornis</i>	None	C	None	0	33	10/02/2009
26471	Equisetopsida	Myrtaceae	<i>Eucalyptus tereticornis subsp. tereticornis</i>	None	C	None	0	2	21/06/2019
27383	Equisetopsida	Myrtaceae	<i>Gossia bidwillii</i>	None	C	None	0	3	19/04/1999
16730	Equisetopsida	Myrtaceae	<i>Lophostemon suaveolens</i>	swamp box	C	None	0	7	07/09/1995
16684	Equisetopsida	Myrtaceae	<i>Melaleuca bracteata</i>	None	C	None	0	32	23/06/1995
14388	Equisetopsida	Myrtaceae	<i>Melaleuca dealbata</i>	swamp tea-tree	C	None	1	1	29/09/1983
18283	Equisetopsida	Myrtaceae	<i>Melaleuca fluviatilis</i>	None	C	None	0	1	21/06/2019
16689	Equisetopsida	Myrtaceae	<i>Melaleuca leucadendra</i>	broad-leaved tea-tree	C	None	0	3	07/09/1995
18771	Equisetopsida	Myrtaceae	<i>Melaleuca linariifolia</i>	snow-in summer	C	None	0	5	07/09/1995
13828	Equisetopsida	Myrtaceae	<i>Melaleuca nervosa</i>	None	C	None	0	12	07/09/1995
31374	Equisetopsida	Myrtaceae	<i>Melaleuca polandii</i>	None	C	None	0	1	16/06/1995
16695	Equisetopsida	Myrtaceae	<i>Melaleuca quinquenervia</i>	swamp paperbark	C	None	0	3	21/06/2018
5505	Equisetopsida	Myrtaceae	<i>Melaleuca trichostachya</i>	None	C	None	0	1	21/06/2018
31375	Equisetopsida	Myrtaceae	<i>Melaleuca viminalis</i>	None	C	None	0	5	07/09/1995
13399	Equisetopsida	Myrtaceae	<i>Psidium guajava</i>	guava	None	None	2	2	14/12/2004
19992	Equisetopsida	Myrtaceae	<i>Rhodomyrtus trineura</i>	None	C	None	0	1	23/06/1995
13436	Equisetopsida	Nelumbonaceae	<i>Nelumbo nucifera</i>	pink waterlily	C	None	1	1	27/11/2004
6062	Equisetopsida	Nyctaginaceae	<i>Boerhavia sp. (Bargara L.Pedley 5382)</i>	None	C	None	1	1	01/12/2002

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9478	Equisetopsida	Nyctaginaceae	<i>Bougainvillea glabra</i>	None	None	None	1	1	27/11/2004
16453	Equisetopsida	Nyctaginaceae	<i>Pisonia aculeata</i>	thorny pisonia	C	None	0	1	19/04/1999
17638	Equisetopsida	Oleaceae	<i>Chionanthus ramiflorus</i>	northern olive	C	None	0	1	19/04/1999
16839	Equisetopsida	Oleaceae	<i>Jasminum didymum</i>	None	C	None	0	21	23/06/1995
16836	Equisetopsida	Oleaceae	<i>Jasminum didymum subsp. didymum</i>	None	C	None	0	1	21/06/2018
16838	Equisetopsida	Oleaceae	<i>Jasminum didymum subsp. racemosum</i>	None	C	None	0	1	19/04/1999
9461	Equisetopsida	Oleaceae	<i>Jasminum simplicifolium</i>	None	C	None	0	16	21/06/2018
16840	Equisetopsida	Oleaceae	<i>Jasminum simplicifolium subsp. australiense</i>	None	C	None	0	1	19/04/1999
13835	Equisetopsida	Oleaceae	<i>Notelaea microcarpa</i>	None	C	None	0	13	19/04/1999
13421	Equisetopsida	Onagraceae	<i>Ludwigia</i>	None	None	None	2	2	14/12/2004
13420	Equisetopsida	Onagraceae	<i>Ludwigia octovalvis</i>	willow primrose	C	None	0	1	21/06/2018
16731	Equisetopsida	Onagraceae	<i>Ludwigia peploides subsp. montevidensis</i>	None	C	None	0	1	10/02/2009
17966	Equisetopsida	Papaveraceae	<i>Argemone ochroleuca subsp. ochroleuca</i>	Mexican poppy	None	None	3	3	14/12/2004
16534	Equisetopsida	Passifloraceae	<i>Passiflora</i>	None	None	None	0	1	14/06/1995
16530	Equisetopsida	Passifloraceae	<i>Passiflora foetida</i>	None	None	None	4	6	21/06/2018
36078	Equisetopsida	Passifloraceae	<i>Passiflora suberosa subsp. litoralis</i>	None	None	None	0	2	21/06/2019
16302	Equisetopsida	Petiveriaceae	<i>Rivina humilis</i>	None	None	None	0	1	21/06/2018
41378	Equisetopsida	Phyllanthaceae	<i>Actephila mooreana</i>	None	C	None	1	1	01/07/1993
17808	Equisetopsida	Phyllanthaceae	<i>Breynia oblongifolia</i>	None	C	None	0	17	21/06/2018
11327	Equisetopsida	Phyllanthaceae	<i>Bridelia exaltata</i>	None	C	None	0	1	19/04/1999
17810	Equisetopsida	Phyllanthaceae	<i>Bridelia leichhardtii</i>	None	C	None	0	13	21/06/2018
17126	Equisetopsida	Phyllanthaceae	<i>Flueggea leucopyrus</i>	None	C	None	0	5	19/04/1999
17096	Equisetopsida	Phyllanthaceae	<i>Glochidion lobocarpum</i>	None	C	None	0	3	23/06/1995
17097	Equisetopsida	Phyllanthaceae	<i>Glochidion sumatranum</i>	umbrella cheese tree	C	None	0	1	07/09/1995
16469	Equisetopsida	Phyllanthaceae	<i>Phyllanthus maderaspatensis var. maderaspatensis</i>	None	C	None	1	1	09/03/1947
16505	Equisetopsida	Picrodendraceae	<i>Petalostigma pubescens</i>	quinine tree	C	None	0	6	21/06/2018
22219	Equisetopsida	Pittosporaceae	<i>Auranticarpa rhombifolia</i>	None	C	None	0	2	16/06/1995
16457	Equisetopsida	Pittosporaceae	<i>Pittosporum ferrugineum</i>	None	C	None	0	2	23/06/1995
22387	Equisetopsida	Pittosporaceae	<i>Pittosporum spinescens</i>	None	C	None	1	17	21/06/2018

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17884	Equisetopsida	Plantaginaceae	<i>Bacopa monnieri</i>	None	C	None	1	1	14/12/2004
18225	Equisetopsida	Plantaginaceae	<i>Mecardonia procumbens</i>	None	None	None	1	1	13/02/2019
16183	Equisetopsida	Plantaginaceae	<i>Scoparia dulcis</i>	scoparia	None	None	2	2	14/12/2004
16427	Equisetopsida	Plumbaginaceae	<i>Plumbago zeylanica</i>	native plumbago	C	None	1	1	01/09/1975
11112	Equisetopsida	Poaceae	<i>Andropogon gayanus</i>	gamba grass	None	None	1	1	23/07/2014
15604	Equisetopsida	Poaceae	<i>Bothriochloa bladhii</i> subsp. <i>bladhii</i>	None	C	None	2	2	25/04/1990
15540	Equisetopsida	Poaceae	<i>Cenchrus ciliaris</i>	None	None	None	0	1	21/06/2018
15541	Equisetopsida	Poaceae	<i>Cenchrus echinatus</i>	Mossman River grass	None	None	1	1	14/12/2004
33863	Equisetopsida	Poaceae	<i>Cenchrus polystachios</i>	None	None	None	0	1	01/10/2003
15551	Equisetopsida	Poaceae	<i>Chloris gayana</i>	rhodes grass	None	None	3	4	21/06/2019
15552	Equisetopsida	Poaceae	<i>Chloris inflata</i>	purpletop chloris	None	None	2	3	13/12/2004
15489	Equisetopsida	Poaceae	<i>Dactyloctenium aegyptium</i>	coast button grass	None	None	2	2	26/11/2004
15490	Equisetopsida	Poaceae	<i>Dactyloctenium radulans</i>	button grass	C	None	1	2	21/06/2019
15463	Equisetopsida	Poaceae	<i>Dichanthium annulatum</i>	sheda grass	None	None	1	1	10/10/1983
15427	Equisetopsida	Poaceae	<i>Digitaria ramularis</i>	None	C	None	1	1	15/07/1938
34495	Equisetopsida	Poaceae	<i>Dinebra decipiens</i> var. <i>asthenes</i>	None	C	None	1	1	09/06/1996
34499	Equisetopsida	Poaceae	<i>Diplachne fusca</i> var. <i>fusca</i>	None	C	None	2	2	14/12/2004
14567	Equisetopsida	Poaceae	<i>Echinochloa colona</i>	awnless barnyard grass	None	None	2	3	13/12/2004
15391	Equisetopsida	Poaceae	<i>Eragrostis cilianensis</i>	None	None	None	1	1	14/12/2004
15378	Equisetopsida	Poaceae	<i>Eragrostis tenuifolia</i>	elastic grass	None	None	1	1	26/11/2004
15320	Equisetopsida	Poaceae	<i>Heteropogon contortus</i>	black speargrass	C	None	0	3	21/06/2018
21954	Equisetopsida	Poaceae	<i>Hymenachne amplexicaulis</i>	hymenachne	None	None	0	1	21/06/2019
9147	Equisetopsida	Poaceae	<i>Hymenachne amplexicaulis</i> 'Olive'	None	None	None	3	3	14/12/2004
10578	Equisetopsida	Poaceae	<i>Hyparrhenia rufa</i>	None	None	None	1	1	14/12/2004
15803	Equisetopsida	Poaceae	<i>Hyparrhenia rufa</i> subsp. <i>rufa</i>	None	None	None	1	2	21/06/2019
15290	Equisetopsida	Poaceae	<i>Imperata cylindrica</i>	blady grass	C	None	0	1	21/06/2019
15254	Equisetopsida	Poaceae	<i>Iseilema vaginiflorum</i>	red flinders grass	C	None	1	1	31/01/2001
29093	Equisetopsida	Poaceae	<i>Megathyrsus maximus</i>	None	None	None	0	5	21/06/2019
28224	Equisetopsida	Poaceae	<i>Megathyrsus maximus</i> var. <i>coloratus</i>	None	None	None	1	1	13/12/2004
27900	Equisetopsida	Poaceae	<i>Megathyrsus maximus</i> var. <i>pubiglumis</i>	None	None	None	1	2	13/12/2004
9154	Equisetopsida	Poaceae	<i>Melinis repens</i>	red natal grass	None	None	1	5	21/06/2019
29956	Equisetopsida	Poaceae	<i>Moorochoa eruciformis</i>	None	None	None	1	1	28/02/1971

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
15163	Equisetopsida	Poaceae	<i>Oplismenus aemulus</i>	creeping shade grass	C	None	0	1	19/04/1999
15176	Equisetopsida	Poaceae	<i>Panicum larcomianum</i>	None	C	None	1	1	28/02/1963
15147	Equisetopsida	Poaceae	<i>Phragmites australis</i>	common reed	C	None	0	1	21/06/2018
21284	Equisetopsida	Poaceae	<i>Phyllostachys</i>	None	None	None	1	1	13/12/2004
15113	Equisetopsida	Poaceae	<i>Polypogon monspeliensis</i>	annual beardgrass	None	None	1	1	09/10/2000
21358	Equisetopsida	Poaceae	<i>Pseudoraphis</i>	None	None	None	0	1	10/02/2009
10612	Equisetopsida	Poaceae	<i>Schizachyrium pseudedulalia</i>	None	C	None	1	1	23/03/2001
9190	Equisetopsida	Poaceae	<i>Setaria sphacelata</i>	None	None	None	1	1	18/12/2003
10246	Equisetopsida	Poaceae	<i>Sorghum arundinaceum</i>	Rhodesian Sudan grass	None	None	0	1	21/06/2018
15042	Equisetopsida	Poaceae	<i>Sorghum bicolor</i>	forage sorghum	None	None	2	2	26/11/2004
14213	Equisetopsida	Poaceae	<i>Sorghum nitidum</i>	None	C	None	0	1	01/10/2003
10792	Equisetopsida	Poaceae	<i>Sorghum nitidum forma aristatum</i>	None	C	None	1	1	07/06/2009
15041	Equisetopsida	Poaceae	<i>Sorghum x alnum</i>	None	None	None	1	1	03/01/1986
15055	Equisetopsida	Poaceae	<i>Sporobolus caroli</i>	fairy grass	C	None	1	1	14/12/2004
10794	Equisetopsida	Poaceae	<i>Sporobolus jacquemontii</i>	None	None	None	1	1	08/02/2002
10158	Equisetopsida	Poaceae	<i>Sporobolus natalensis</i>	None	None	None	2	2	30/11/1993
14974	Equisetopsida	Poaceae	<i>Themeda triandra</i>	kangaroo grass	C	None	0	2	21/06/2018
14999	Equisetopsida	Poaceae	<i>Urochloa mosambicensis</i>	sabi grass	None	None	2	4	14/12/2004
2359	Equisetopsida	Poaceae	<i>Urochloa mutica</i>	None	None	None	2	5	21/06/2018
13252	Equisetopsida	Polygonaceae	<i>Antigonon leptopus</i>	None	None	None	3	3	14/12/2004
34811	Equisetopsida	Polygonaceae	<i>Duma florulenta</i>	None	C	None	1	1	15/08/1997
21257	Equisetopsida	Polygonaceae	<i>Persicaria</i>	None	None	None	0	1	10/02/2009
14350	Equisetopsida	Polygonaceae	<i>Persicaria attenuata</i>	None	C	None	1	1	13/12/2004
16496	Equisetopsida	Polygonaceae	<i>Persicaria lapathifolia</i>	pale knotweed	C	None	1	1	14/12/2004
14351	Equisetopsida	Polygonaceae	<i>Persicaria orientalis</i>	princes feathers	C	None	2	3	21/06/2019
16393	Equisetopsida	Polygonaceae	<i>Polygonum plebeium</i>	small knotweed	C	None	1	1	12/02/2019
17370	Equisetopsida	Pontederiaceae	<i>Eichhornia crassipes</i>	water hyacinth	None	None	1	2	14/12/2004
13192	Equisetopsida	Pontederiaceae	<i>Monochoria cyanea</i>	None	C	None	1	1	10/02/2011
16410	Equisetopsida	Portulacaceae	<i>Portulaca australis</i>	None	C	None	2	2	14/12/2004
16361	Equisetopsida	Potamogetonaceae	<i>Potamogeton tricarlinatus</i>	floating pondweed	C	None	1	1	06/06/2010
17033	Equisetopsida	Proteaceae	<i>Grevillea helmsiae</i>	None	C	None	0	1	14/06/1995
17045	Equisetopsida	Proteaceae	<i>Grevillea striata</i>	beefwood	C	None	0	1	07/09/1995
18031	Equisetopsida	Pteridaceae	<i>Adiantum hispidulum</i>	None	C	None	0	1	19/04/1999
9557	Equisetopsida	Putranjivaceae	<i>Drypetes deplanchei</i>	grey boxwood	C	None	0	24	21/06/2018
16323	Equisetopsida	Ranunculaceae	<i>Ranunculus lappaceus</i>	common buttercup	C	None	1	1	31/01/1968

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
9659	Equisetopsida	Rhamnaceae	<i>Alphitonia excelsa</i>	soap tree	C	None	0	16	21/06/2018
14129	Equisetopsida	Rhamnaceae	<i>Ziziphus mauritiana</i>	Indian jujube	None	None	6	6	14/12/2004
18045	Equisetopsida	Rubiaceae	<i>Aidia racemosa</i>	None	C	None	0	1	19/04/1999
6339	Equisetopsida	Rubiaceae	<i>Antirhea putaminosa</i>	None	C	None	0	5	14/06/1995
5565	Equisetopsida	Rubiaceae	<i>Coelospermum reticulatum</i>	None	C	None	0	2	02/06/1995
27437	Equisetopsida	Rubiaceae	<i>Cyclophyllum coprosmoides</i> var. <i>coprosmoides</i>	None	C	None	0	1	21/06/2018
41446	Equisetopsida	Rubiaceae	<i>Dolichocarpa coeruleascens</i>	None	C	None	1	1	26/11/2004
15202	Equisetopsida	Rubiaceae	<i>Nauclea orientalis</i>	Leichhardt tree	C	None	0	3	07/09/1995
7598	Equisetopsida	Rubiaceae	<i>Pavetta australiensis</i>	None	C	None	0	1	19/04/1999
16334	Equisetopsida	Rubiaceae	<i>Psychotria daphnoides</i>	None	C	None	0	2	11/07/2018
2399	Equisetopsida	Rubiaceae	<i>Psydrax odorata</i>	None	C	None	0	13	21/06/2018
29826	Equisetopsida	Rubiaceae	<i>Psydrax odorata forma</i> <i>buxifolia</i>	None	C	None	0	3	23/06/1995
29840	Equisetopsida	Rubiaceae	<i>Psydrax odorata subsp.</i> <i>australiana</i>	None	C	None	1	1	31/10/1931
29823	Equisetopsida	Rubiaceae	<i>Psydrax oleifolia</i>	None	C	None	0	10	21/06/2018
15997	Equisetopsida	Rubiaceae	<i>Timonius timon var. timon</i>	None	C	None	0	1	07/09/1995
15871	Equisetopsida	Rutaceae	<i>Acronychia laevis</i>	glossy acronychia	C	None	0	2	19/04/1999
27796	Equisetopsida	Rutaceae	<i>Coatesia paniculata</i>	None	C	None	0	1	19/04/1999
18946	Equisetopsida	Rutaceae	<i>Dinosperma erythrococtum</i>	None	C	None	0	1	07/06/1995
11430	Equisetopsida	Rutaceae	<i>Geijera salicifolia</i>	brush wilga	C	None	0	35	21/06/2018
16677	Equisetopsida	Rutaceae	<i>Micromelum minutum</i>	clusterberry	C	None	0	2	09/06/1995
21837	Equisetopsida	Rutaceae	<i>Murraya paniculata 'Exotica'</i>	None	None	None	2	8	21/06/2019
16239	Equisetopsida	Rutaceae	<i>Sarcomelicope simplicifolia</i> subsp. <i>simplicifolia</i>	yellow aspen	C	None	0	1	19/04/1999
16914	Equisetopsida	Salicaceae	<i>Homalium alnifolium</i>	homalium	C	None	0	1	07/06/1995
16182	Equisetopsida	Salicaceae	<i>Scolopia braunii</i>	flintwood	C	None	0	3	19/04/1999
17878	Equisetopsida	Salviniaceae	<i>Azolla pinnata</i>	ferny azolla	C	None	1	1	27/11/2004
16276	Equisetopsida	Salviniaceae	<i>Salvinia molesta</i>	salvinia	None	None	2	2	14/12/2004
17181	Equisetopsida	Santalaceae	<i>Exocarpos latifolius</i>	None	C	None	0	8	21/06/2018
18052	Equisetopsida	Sapindaceae	<i>Alectryon connatus</i>	grey birds-eye	C	None	1	5	21/06/2018
18054	Equisetopsida	Sapindaceae	<i>Alectryon diversifolius</i>	scrub boonaree	C	None	0	26	21/06/2018
9489	Equisetopsida	Sapindaceae	<i>Alectryon subdentatus</i>	None	C	None	0	2	21/06/2018
17930	Equisetopsida	Sapindaceae	<i>Arytera divaricata</i>	coogera	C	None	1	3	19/04/1999
13712	Equisetopsida	Sapindaceae	<i>Atalaya calcicola</i>	None	C	None	0	1	21/06/2018
17906	Equisetopsida	Sapindaceae	<i>Atalaya hemiglauca</i>	None	C	None	0	4	21/06/2018
14777	Equisetopsida	Sapindaceae	<i>Cardiospermum halicacabum</i> var. <i>halicacabum</i>	None	None	None	2	2	14/12/2004
17548	Equisetopsida	Sapindaceae	<i>Cupaniopsis anacardioides</i>	tuckeroo	C	None	0	29	21/06/2018
13638	Equisetopsida	Sapindaceae	<i>Cupaniopsis wadsworthii</i>	None	C	None	0	16	21/06/2018
17391	Equisetopsida	Sapindaceae	<i>Dodonaea viscosa</i>	None	C	None	0	2	07/06/1995

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
17339	Equisetopsida	Sapindaceae	<i>Elattostachys xylocarpa</i>	white tamarind	C	None	0	19	21/06/2018
16969	Equisetopsida	Sapindaceae	<i>Harpullia pendula</i>	None	C	None	0	2	21/06/2018
16885	Equisetopsida	Sapindaceae	<i>Jagera pseudorhus</i>	None	C	None	0	6	23/06/1995
16415	Equisetopsida	Sapotaceae	<i>Planchonella cotinifolia</i> var. <i>pubescens</i>	None	C	None	0	1	19/04/1999
13125	Equisetopsida	Sapotaceae	<i>Planchonella pohlmaniana</i>	None	C	None	0	2	19/04/1999
17271	Equisetopsida	Scrophulariaceae	<i>Eremophila bignoniiflora</i>	eurah	C	None	1	1	20/07/1996
8631	Equisetopsida	Scrophulariaceae	<i>Eremophila debilis</i>	winter apple	C	None	1	5	07/09/1995
17278	Equisetopsida	Scrophulariaceae	<i>Eremophila mitchellii</i>	None	C	None	0	3	07/06/1995
16602	Equisetopsida	Scrophulariaceae	<i>Myoporum acuminatum</i>	coastal boobialla	C	None	0	17	07/09/1995
18047	Equisetopsida	Simaroubaceae	<i>Ailanthus triphysa</i>	white siris	C	None	0	1	19/04/1999
13674	Equisetopsida	Solanaceae	<i>Capsicum annuum</i> var. <i>glabriusculum</i>	None	None	None	2	2	13/12/2004
13673	Equisetopsida	Solanaceae	<i>Capsicum frutescens</i>	None	None	None	2	3	14/12/2004
17494	Equisetopsida	Solanaceae	<i>Datura innoxia</i>	None	None	None	2	2	14/12/2004
16157	Equisetopsida	Solanaceae	<i>Solanum americanum</i>	None	None	None	1	2	16/10/2003
16120	Equisetopsida	Solanaceae	<i>Solanum seaforthianum</i>	Brazilian nightshade	None	None	2	4	21/06/2018
16124	Equisetopsida	Solanaceae	<i>Solanum stelligerum</i>	devil's needles	C	None	0	1	19/04/1999
16126	Equisetopsida	Solanaceae	<i>Solanum torvum</i>	devil's fig	None	None	1	1	14/12/2004
17049	Equisetopsida	Sparrmanniaceae	<i>Grewia latifolia</i>	dysentery plant	C	None	0	14	21/06/2018
17796	Equisetopsida	Sterculiaceae	<i>Brachychiton australis</i>	broad-leaved bottle tree	C	None	0	2	21/06/2018
17803	Equisetopsida	Sterculiaceae	<i>Brachychiton rupestris</i>	None	C	None	0	7	21/06/2018
16103	Equisetopsida	Sterculiaceae	<i>Sterculia quadrifida</i>	peanut tree	C	None	0	1	07/06/1995
12527	Equisetopsida	Typhaceae	<i>Typha domingensis</i>	None	C	None	0	1	21/06/2018
17955	Equisetopsida	Ulmaceae	<i>Aphananthe philippinensis</i>	None	C	None	1	17	19/04/1999
31416	Equisetopsida	Ulmaceae	<i>Trema tomentosa</i> var. <i>aspera</i>	None	C	None	2	2	04/11/1969
34284	Equisetopsida	Verbenaceae	<i>Glandularia aristigera</i>	None	None	None	2	3	01/10/2003
20953	Equisetopsida	Verbenaceae	<i>Lantana</i>	None	None	None	1	1	26/11/2004
19905	Equisetopsida	Verbenaceae	<i>Lantana camara</i>	lantana	None	None	6	14	21/06/2019
13853	Equisetopsida	Verbenaceae	<i>Lantana montevidensis</i>	creeping lantana	None	None	3	4	13/12/2004
7796	Equisetopsida	Verbenaceae	<i>Phyla canescens</i>	None	None	None	1	1	14/12/2003
16143	Equisetopsida	Verbenaceae	<i>Stachytarpheta jamaicensis</i>	Jamaica snakeweed	None	None	5	7	21/06/2018
25819	Equisetopsida	Verbenaceae	<i>Verbena africana</i>	None	C	None	1	1	26/11/2004
27188	Equisetopsida	Verbenaceae	<i>Verbena gaudichaudii</i>	None	C	None	2	2	27/11/2004
27944	Equisetopsida	Verbenaceae	<i>Verbena littoralis</i> var. <i>littoralis</i>	None	None	None	1	1	14/12/2004
17648	Equisetopsida	Vitaceae	<i>Cissus oblonga</i>	None	C	None	0	2	19/04/1999

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
12458	Equisetopsida	Vitaceae	<i>Cissus reniformis</i>	None	C	None	0	1	21/06/2018
31727	Equisetopsida	Vitaceae	<i>Clematicissus opaca</i>	None	C	None	0	6	19/04/1999
12348	Equisetopsida	Zygophyllaceae	<i>Tribulus</i>	None	None	None	1	1	21/11/1983

Table 4. Fungi recorded within the area of interest and its one kilometre buffer

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
33515	Agaricomycetes	Agaricaceae	<i>Bovista aestivalis</i>	None	C	None	1	1	31/12/1952
26226	Agaricomycetes	Agaricaceae	<i>Leucoagaricus fimetarius</i>	None	C	None	1	1	31/03/1989
33490	Agaricomycetes	Polyporaceae	<i>Hexagonia hirta</i>	None	C	None	2	2	11/09/2008
28229	Agaricomycetes	Polyporaceae	<i>Loweporus tephroporus</i>	None	C	None	1	1	15/05/1990
28689	Agaricomycetes	Strophariaceae	<i>Psilocybe cubensis</i>	None	C	None	1	1	14/11/1974
23245	Lecanoromycetes	Caliciaceae	<i>Buellia</i>	None	None	None	1	1	20/08/1975
23098	Lecanoromycetes	Caliciaceae	<i>Dirinaria confluens</i>	None	C	None	1	1	22/03/2009
23198	Lecanoromycetes	Haematommataceae	<i>Haematomma</i>	None	None	None	1	1	22/03/2009
23232	Lecanoromycetes	Lecanoraceae	<i>Lecanora</i>	None	None	None	1	1	22/03/2009
25475	Lecanoromycetes	Peltigeraceae	<i>Peltigera polydactylon</i>	None	C	None	1	1	25/05/1981
23428	Lecanoromycetes	Pertusariaceae	<i>Pertusaria</i>	None	None	None	1	1	22/03/2009

Table 5. Other species recorded within the area of interest and its one kilometre buffer

Taxon Id	Class	Family	Scientific Name	Common Name	NCA	EPBC	Specimens	Records	Last record
8813	Cyanophyceae	Aphanizomenonaceae	<i>Aphanizomenon flos-aquae</i>	None	C	None	1	1	14/03/1969

Species table headings and codes

Taxon Id: Unique identifier of the taxon from the WildNet database.

NCA: Queensland conservation status of the taxon under the *Nature Conservation Act 1992* (Least Concern (C), Critically Endangered (CR), Endangered (E), Extinct (EX), Near Threatened (NT), Extinct in the Wild (PE), Special Least Concern (SL), and Vulnerable (V)).

EPBC: Australian conservation status of the taxon under the *Environment Protection and Biodiversity Conservation Act 1999* (Conservation Dependent (CD), Critically Endangered (CE), Endangered (E), Extinct (EX), Vulnerable (V), and Extinct in the Wild (XW)).

Specimens: The number of specimen-backed records of the taxon.

Records: The total number of records of the taxon.

Last record: Date of latest record of the taxon.

Links and Support

Other sites that deliver species information from the [WildNet database](#) include:

- [Species profile search](#) - access species information approved for publication including species names, statuses, notes, images, distribution maps and records
- [Species lists](#) - generate species lists for Queensland protected areas, forestry areas, local governments and areas defined using coordinates
- [Biomaps](#) - view biodiversity information, including WildNet records approved for publication, and generate reports
- [Queensland Globe](#) - view spatial information, including WildNet records approved for publication
- [Qld wildlife data API](#) - access WildNet species information approved for publication such as notes, images and records etc.
- [WetlandMaps](#) - view species records, survey locations etc. approved for publication
- [WetlandSummary](#) - view wildlife statistics, species lists for a range of area types, and access WildNet species profiles
- [WildNet wildlife records - published - Queensland](#) - spatial layer of WildNet records approved for publication generated weekly
- [Generalised distribution and densities of Queensland wildlife](#) - Queensland species distributions and densities generalised to a 10 km grid resolution
- [Conservation status of Queensland wildlife](#) - access current lists of priority species for Queensland including nomenclature and status information
- [Queensland Confidential Species](#) - the list of species flagged as confidential in the WildNet database.

Please direct queries about this report to the [WildNet Team](#).

Other useful sites for accessing Queensland biodiversity data include:

- [Useful wildlife resources](#)
- [Queensland Government Data](#)
- [Atlas of Living Australia \(ALA\)](#)
- [Online Zoological Collections of Australian Museums \(OZCAM\)](#)
- [Australia's Virtual Herbarium \(AVH\)](#)
- [Protected Matters Search Tool](#)

Disclaimer

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Appendix B

CVs

Peter Moonie Ecologist/Environmental Scientist



Red Ash
Consulting



Peter is a flora ecologist with over 22 years' professional experience in the field of ecology and natural resource management. He has extensive technical knowledge and practical skills in vegetation mapping, ecological investigations, impact assessments, environmental approvals and environmental monitoring for a range of projects in Queensland, including several major renewable energy projects. Peter also possesses high level writing skills and has demonstrated an ability to consistently deliver projects on time and on budget. Peter is a suitably qualified person to undertake flora surveys in accordance with Queensland's protected plants framework and endorsed by the Department of the Environment and Energy (now the Department of Agriculture, Water and the Environment) to undertake flora surveys for EPBC Act approved projects in the oil and gas sector.

Skills

- Flora surveys (including threatened flora, weeds and terrestrial and aquatic flora inventories)
- Vegetation community mapping, including regional ecosystem verification, preparation of property maps of assessable vegetation (PMAVs) and Threatened Ecological Community assessments
- Development of environmental mitigation measures and environmental management plans for a range of development types
- Technical ecological assessments for wetlands, marine plants, coastal and riparian areas
- BioCondition assessments and offset planning
- Local, State and Federal environmental legislative reviews, including identification of MNES, MSES and MLES
- Preparation of technical reports
- Extensive experience negotiating with local, state and commonwealth regulatory bodies
- Presentations to regulators and technical industry forums

Qualifications and Accreditations

Bachelor of Science (Ecology), Griffith University, 1989; Bachelor of Applied Science, QUT; Grad Dip (Teach)
Senior First Aid Certificate
General Safety Induction (Construction Industry)

Professional Experience

Red Ash Consulting Pty Ltd – *Director and Principal Environmental Scientist / Ecologist, May 2019 to current*

- 3D Environmental – Pre-clearance flora surveys for proposed pumped hydro project in the North Burnett Region.
- Private clients (solar farms and wind farms) – Baseline ecological assessments and EPBC referrals for various renewable resource projects in Queensland.

- ▶ Arrow – Subconsultant for 3D Environmental undertaking BioCondition assessments at numerous sites in the Surat Basin.
- ▶ BHP Mitsubishi Alliance – Sub-consultant for Earthtrade undertaking BioCondition monitoring in the Bowen Basin.
- ▶ Townsville Enterprise Limited – Subconsultant for GHD undertaking baseline ecological surveys for a proposed new weir on the Burdekin River, within the Charters Towers Local Government Area, approximately 26 kilometres north of Charters Towers (known as Big Rocks Weir).
- ▶ Transport and Main Roads – BioCondition surveys. Supervision and monitoring of the plant translocation program for the Cooroy to Curra by-pass Section D.
- ▶ GHD – Subconsultant to GHD undertaking vegetation and flora surveys for a proposed overhead electricity transmission line extending from Mount Isa to a connection point at Woodstock, south of Townsville. Assessments against significant impact assessment criteria were also undertaken.
- ▶ Transport and Main Roads – Coordination and implementation of ecological surveys for the Tiaro bypass project. Assessments against significant impact assessment criteria and identification of legislative approvals.
- ▶ TEM – Subconsultant for GHD undertaking on-ground audits of projects under the Carbon Farming Initiative (HIR) methodology.
- ▶ Bundaberg Regional Council – Development of an environmental approvals checklist to be used by staff. MNES and MSES investigations and approvals advice provided for numerous projects.
- ▶ Fraser Coast Regional Council (2019) – vegetation monitoring and BioCondition assessments for a sewage treatment plant; protected plant surveys in accordance with *Nature Conservation Act 1992* requirements.
- ▶ Burnett Mary Regional Group – Environmental approvals advice and preparation of rehabilitation plans for various projects in the Burnett Mary region.
- ▶ Fraser Island (Happy Valley) weed management survey.

GHD Pty Ltd – *Senior Ecologist / Environmental Scientist, January 2008 to May 2019*

- ▶ Arrow and Origin - Pre-clearance threatened ecological communities, threatened flora and weed surveys for the coal seam gas industry in south-west and central Queensland.
- ▶ Arrow – Baseline ecology surveys. Decommissioning and rehabilitation planning for closed sites.
- ▶ Seqwater – Vegetation and weed surveys for the raising of Eden Bann Weir and construction of a new weir at Rookwood on the Fitzroy River, Central Queensland.
- ▶ Solar farm (private client) - Ecological and impact assessments for a major proposed solar farm in the Rockhampton Region of Queensland. Preparation of supporting documentation for Commonwealth and State approvals.
- ▶ Department of Defence – Ecological surveys and constraints assessment of proposed training areas in Central Queensland.
- ▶ Seqwater – Baseline ecological surveys for proposed Burdekin Falls Dam Raising Project.
- ▶ Seqwater – Advanced offset assessments and threatened flora surveys at various land holdings within South-east Queensland. Data was used to identify and register advanced offset opportunities under the Queensland Environmental Offset policy.
- ▶ Bundaberg Regional Council – riparian and aquatic flora surveys, water quality monitoring and habitat assessments as part of the Bundaberg Regional Council REMP program.
- ▶ Fraser Coast Regional Council – Key projects include:

- High level assessment of biodiversity values and environmental constraints associated with various options considered for the proposed Burrum River bridge
 - Protected plant surveys for various road development projects
 - Assessment of ecological matters of various development applications
- Ecological assessments for TMR for road upgrade and maintenance projects within the Wide Bay-Burnett Region including flora surveys, fauna habitat assessments, threatened plant translocations, revegetation monitoring, impact management plans, species management programs, significant impact assessments and environmental approvals assessments.

Professional papers

- Dixon, B. & Moonie, P. (2003). Ecological Restoration of a Cliff Face in Kings Park and Botanic Gardens, Perth, Western Australia. Botanic Gardens Conservation News, Vol. 4, No. 1. Botanic Garden Conservation International (BGCI).
 - Meney, K., Dixon, B., Moonie, P. (2002). Control of bridal creeper *Asparagus asparagoides* on Kings Park Scarp and limiting factors on its growth and spread. 13th Australian Weeds Conference: weeds "threats now and forever?", Sheraton Perth Hotel, Perth, Western Australia, 8-13 September 2002: papers and proceedings: 113-116.
 - Dixon, B. & Moonie, P. (2003). Erosion Control on Kings Park Scarp. Western Wildlife. Volume 5, number 4.
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Professional Profile

Greg is a terrestrial ecologist with more than 30 years' experience gained throughout eastern and northern Australia. He has worked in government, community/NGO and private sectors on a diverse range of projects in the fields of: rangeland management; wetland classification; bioregional fauna survey; bat ecology and management; woodland bird conservation; environmental impact assessment; NRM integrated planning; and threatened species recovery planning.

Greg is a nationally recognised expert on Australian bats, with highly specialised skills in echolocation call analysis for microbat identification. He has an extensive knowledge of bat ecology, bat survey design and analysis, and bat roost management.

Greg's broader skill set includes:

- Vertebrate fauna survey and inventory;
- Flora and vegetation survey;
- Ecological impact assessment;
- Ecological condition benchmarking and monitoring (e.g. BioCondition);
- Vegetation management planning;
- Threatened species impact assessment and planning;
- Ecological constraints assessment;
- Expert review and technical editing; and
- Science communication, rural extension and community engagement.

Professional Affiliations

Life Member, Australasian Bat Society (past President and Vice-president)

Member, Ecological Society of Australia

Member Birdlife Australia

Tertiary Qualifications

Bachelor of Applied Science (Biology); 1987; University of Southern Qld.

Graduate Diploma in Resource Management; 1989; University of Canberra.

Work-place Qualifications

S11 surface mining induction, 2019

CSG Industry Safety Induction, 2016

Operate & Maintain a 4WD Vehicle, 2016

Career profile

Jan 2010-present

Balance! Environmental – Director & Principal Ecologist

Jul 2008-Dec 2009

Conics/RPS (formerly Natural Solutions Pty Ltd) – senior consultant ecologist

Apr 2004-Jun 2008

Qld Murray-Darling Committee, Toowoomba – regional ecologist, NRM planning & extension

Jun 2001-Mar 2004

North East Downs Landcare Group Inc., Oakey – biodiversity survey, extension and planning

1998 & Jul 1999-May 2001

independent consultant ecologist and post-graduate research

Apr 1994-Nov 1997; Jan-Jun 1999

Qld Environmental Protection Agency – wetlands survey & inventory; bioregional fauna survey

Aug 1992-Apr 1994

Qld Dept. Primary Industries, Charters Towers – pasture agronomy & grazing land management

Jun 1989-Jul 1992

NT Dept. Primary Industry and Fisheries, Alice Springs & Tennant Creek – rangeland ecology research & monitoring

Selected Project Experience

Bat echolocation call interpretation

Greg is one of Australia's foremost experts on bat call interpretation and analysis, with an extensive knowledge of the nation's microbat species, their ecology and echolocation calls.

He processes bat-call survey data from more than 100 separate projects per year, for a wide variety of clients working across the energy, resources, urban & infrastructure development sectors. He also works closely with clients on acoustic survey design and planning.

Greg's call-analysis expertise encompasses all Australian bat species, with a focus on those of the eastern States and the Northern Territory.

Bat monitoring & management

NSW BAM process registered threatened bat species expert - Eastern Cave Bat *Vespadelus troughtoni* (2021-present)

Southern Downs Regional Flying-fox Management Plan and supervision of roost management actions (Southern Downs Regional Council, 2019-2022)

Threatened bat species monitoring, Gold Coast Airport (Ecosure; 2010-2022)

Bat monitoring for compliance with approvals granted under NSW environmental legislation.

Banana Shire Flying-fox Management Plan (Banana Shire Council, 2016-17)

Survey and exclusion planning for bats in culverts – Bruce Highway Upgrade Project (Dept. Transport & Main Roads, 2016)

Emu Swamp Dam Threatened Bat Habitat Assessment (Jacobs for Southern Downs Regional Council; 2015) – EPBC Act compliance risk assessment Large-eared Pied Bat (*Chalinolobus dwyeri*)

Microbat roost management for residential and commercial buildings (Rio Tinto Alcan, Weipa; 2012)

Roost investigation and development of species management plans for eviction and alternative roost site establishment.

Energy & resources projects

Shell-QGC, Bowen & Surat Basins, targeted threatened species surveys – bat specialist (AECOM, 2020)

Ensham Resources, Bowen Basin, targeted threatened species surveys – bat specialist (AECOM, 2019)

Origin Energy, Surat Basin, targeted threatened species surveys – bat specialist (Eco Logical Australia, 2018)

Origin Energy, pipeline approval compliance monitoring – threatened bat species (E2M Consulting, 2018-2019)

Lakeland Wind Farm, targeted threatened species surveys plus bat management & monitoring plan (Eco Logical Australia; 2018-2019)

Arrow Energy, Surat Basin, baseline fauna surveys – bat specialist (Ecosmart Ecology, 2016-17)

Mt Emerald Wind Farm (RPS; 2011-2013)
Advise and collaborate on threatened bat species survey design & monitoring protocols; analyse & interpret echolocation data.

Coopers Gap Wind Farm (AECOM, 2011)
Expert review of MNES pertaining to bat species for inclusion in EPBC Referral; technical specialist advice on survey requirements and sampling design for bats.

Other bat specialist projects

Cape York Bat Blitz expedition – Team Leader for extensive microbat survey and collection of echolocation reference call data (Australasian Bat Society, 2019)

Bat-call detection and analysis training (collaboration with Titley Scientific, 2019-2020) – designed and presented a series of workshops on bat acoustics, detection technology, analysis software and call-identification in partnership with Australia's premier bat-detector supplier



Choose an option...

James Wyatt BSc (HONS)

Aquatic Ecologist



Location

Brisbane, Queensland

Experience

12 years

Qualifications/Accreditations

- BSc (Hons), 2004
- BSc, 2001-2003
- AUSRIVAS Accredited (modules 1-5)

Key technical skills

- Aquatic ecological assessment and field surveying
- Threatened species habitat assessments and targeted surveys
- Waterway barrier works assessment
- Environmental impact and risk assessment
- Receiving environment monitoring programs

Relevant experience summary

James is an aquatic ecologist with 12 years' experience within aquatic ecosystems, including macroinvertebrate monitoring and identification to species level, fish surveys, fish ecology and movement patterns, turtle ecology and movement surveys, riverine bathymetry and hydrology, extensive marine and freshwater water and sediment quality monitoring, as well as targeted threatened species surveys. Prior to joining GHD James worked in the top end of the Northern Territory and appreciates the dynamics, conditions, and requirements of remote aquatic field work in northern Australia. James is highly skilled and experienced in the technical aspects of field work and understands the importance of collecting valuable and accurate data combined with his statistical knowledge and application to provide meaningful outcomes and high-level technical reports for a range of clients. James has worked in the public, research, mining and consulting sectors on a variety of projects including monitoring programs, compliance monitoring, permitting, environmental impact assessments and species management programs.

Project experience –

Yabba Creek No.6 Aquatic Ecology Assessment

Team member |

Department of Transport and Main Roads | Imbil, Queensland | | 2021

The project involved an aquatic fauna survey, including targeting surveys for threatened aquatic species for bridge maintenance activities.

James was a team member who undertook all aquatic surveys, which included targeted threatened species platypus, Mary River cod, Mary River turtle and Australian lungfish. James then wrote the report which included the likelihood of occurrence and assessment of habitat and breeding areas.

Lake Manchester Release – Significant Impact Assessment

Team member |

Seqwater | Lake Manchester, Queensland | | 2021

The project was to deliver a Significant Impact Assessment of water releases from Lake Manchester due to upgrades in infrastructure for Contingency Water Resources Planning.

James undertook a desktop assessment of the area and used details of a field assessment to conduct a Significant Impact Assessment of the implications of Dam upgrades to Cabbage Tree Creek and the threatened species platypus and Australian lungfish.

Mt St John Trade Waste Lagoons PFAS Contamination Assessment and Remediation

Team member |

Townsville City Council | Townsville, Queensland | | 2021

The project was to assist Townsville City Council in quantifying the extent of PFAS contamination from previous trade waste lagoons.

James was involved in the field survey which required surveys for fish and invertebrates, as well as water and sediment quality sampling. James then collected all samples and processed them before sending to the laboratory for analysis.

Aquatic surveys for Lower Fitzroy Water Joint Venture

Team member |

Lower Fitzroy Water Joint Venture | Rockhampton, Queensland | | 2008-2009

The project involved an aquatic fauna survey as part of an initial assessment of flora, fauna and aquatic species in several sections of the Fitzroy River for potential sites for upgrades and raising of several dams including Eden Bann.

James was a senior team member who undertook all aquatic surveys, James then wrote the report of all aquatic fauna surveyed which led into initial referrals to government and the EIS process.

Warringah Shire catchment condition

Team member |

**Warringah Shire Council | Warringah, New South Wales |
| 2008-2010**

The project conducted surveys each autumn and spring for water quality and macroinvertebrate communities throughout many rivers and creeks within the Warringah Council catchment area.

James was a team member who completed all field studies, identified the macroinvertebrate samples, completed all statistical analyses which included AUSRIVAS models, and wrote the technical report for the project.

Melbourne Water North-South (Sugarloaf) Pipeline

Team member |

**Melbourne Water | Melbourne, Victoria |
| 2008-2010**

The project was to deliver a pipeline from the Goulbourn River to Sugarloaf Reservoir ensuring water security for Melbourne's demands.

James was a team member contributing to the baseline surveys of macroinvertebrates and fish communities for all waterway crossings of a pipeline. James also wrote and conducted threatened species management plans for fish species (*Macquaria australasica* and *Maccollochella macquariensis*) and well as other invertebrate species.

Anglesea Borefield Assessment

Team member |

**Barwon Water | Anglesea, Victoria |
| 2008-2010**

Baseline surveys of flora, fauna, aquatic fauna and habitat, hydrogeological modelling of areas potentially effected by groundwater extraction within the Anglesea Borefield Area with information used as part of an environmental impact assessment. James surveyed the catchment for surface water and aquatic habitats, surveyed the macroinvertebrate, crayfish and fish populations and wrote technical reports. James designed ongoing monitoring protocols and reported the implications of groundwater extraction for the environmental impact assessment.

Baseline assessment for Queenscliff Harbour Upgrade

Team member |

**Sinclair Brook | Queenscliff, Victoria |
| 2009**

Baseline assessment of marine sediment and water quality in Queenscliff Harbour as part of the pre-construction phase of works for the harbour upgrade. James collected marine sediment and water quality samples, completed all data entry and analyses and contributed to the technical report.



Lauren Pratt BMARST (HONS)

Senior Aquatic Ecologist



Location

Brisbane, Queensland

Experience

13 years

Qualifications/Accreditations

- Bachelor of Marine Studies (Marine Biology and Ecology) Honours (2006)
- AusRivAS accredited (2018)

Key technical skills

- Aquatic ecological assessment and field surveying
- Waterway barrier works assessment
- Environmental impact and risk assessment
- Receiving environment monitoring programs

Relevant experience summary

Lauren is an ecologist with 13 years' experience in aquatic ecosystem monitoring, including water and sediment quality, acid sulfate soil, macroinvertebrate, fish, turtle and stygofauna surveys. Lauren typically conducts this monitoring for baseline studies including linear infrastructure, receiving environment monitoring programs and environmental compliance. Lauren is highly experienced in macroinvertebrate identification and data quality assurance. Lauren is adept in research, interpreting data and providing easily understood technical reports for clients. Her project management experience includes working with local and state governments as well as private businesses including waste management, developments and mining companies.

Project experience

Annual Environmental Monitoring Program

Gladstone Area Water Board | Gladstone Region, QLD.

The Gladstone Area Water Board (GAWB) commissioned GHD to conduct the Annual Environmental Monitoring Program (AEMP) for Awoonga Dam. Surveys include habitat assessments, water quality and sediment quality monitoring and fish surveys. This data is then presented in the AEMP report where it is compared with historical data. GHD also supports GAWB in delivering to their annual reporting requirements. Lauren coordinates subconsultants, completes data entry and analysis and reporting for this project.

Urannah Water Scheme EIS

Bowen River Utilities | Mackay Region, QLD.

GHD was engaged by Bowen River Utilities to undertake environmental investigations of the Urannah Dam and pipeline study area. The project footprint, wider study area and desktop survey extent were assessed for ecological values including protected areas, waterways providing for fish passage, aquatic habitat and condition, macrophytes and riparian

vegetation, aquatic fauna and conservation significant species. Several baseline reports were written with subsequent EIS chapters currently in development. Lauren undertook the fieldwork, data entry and analysis and reporting for this project.

Bruce Highway Upgrade – Caloundra Road to Sunshine Motorway: Aquatic Ecology and Fish Passage Assessment

Fulton Hogan | Sunshine Coast Region, QLD.

This project involved an assessment of aquatic ecology and fish passage of watercourses crossed by the proposed Bruce Highway Upgrade to support approval processes. The assessment considered aquatic matters of national, state and local environmental significance, and included both desktop and field survey assessment methods. The requirement to providing fish passage at each site was based on specialist assessment of likelihood of fish migration by native fish species under a range of flow conditions. Lauren undertook the fieldwork for this project.

Big Rocks Weir Business Case

Townsville Enterprise Limited | Charters Towers Region, QLD

Townsville Enterprise Limited required a pre-wet and post-wet ecological assessment of the Burdekin River where Big Rocks Weir and associated saddle dams are proposed to be constructed. These surveys included habitat assessment, in-situ water quality and surveys for fish, turtle and platypus. Lauren led the aquatic component of the fieldtrips, completed data entry and analysis and reporting. Reporting involved desktop reviews, interpretation of field results, impact assessment and mitigation measures.

Collaroy Culverts

Isaac Regional Council | Isaac Region, QLD.

Assessment of Whelan and Collaroy Creeks to determine if suitable habitat for platypus and threatened species white-throated snapping turtle and Fitzroy River turtle existed within the footprint of three proposed culverts. This survey included habitat assessment and surveys for fish, turtle and platypus. Lauren was the fieldtrip leader, completed data entry and analysis and undertook reporting for this project.

Pine Creek and Givelda 4WD Evacuation Route

Red Ash Consulting | Wide Bay-Burnett Region, QLD.

Assessment of Cherry Creek to determine if suitable habitat for platypus and threatened species white-throated snapping turtle existed within the footprint of a proposed culvert. This survey included habitat assessment and surveys for fish, turtle and platypus. Lauren was the fieldtrip leader, completed data entry and analysis and undertook reporting for this project.

Coondoo Creek Fauna Salvage

TMR | Wide Bay-Burnett Region, QLD.

This project involved the construction of a new bridge at Coondoo Creek near Tin Can Bay, QLD. Coondoo Creek has high environmental value with threatened species known to occur in the area. To mitigate the risk of harm to fish and turtles during construction, a fauna management plan was written and pre-clearance surveys and fauna salvage during operations carried out. Lauren undertook the fish and turtle salvage, data entry and analysis and reporting for this project.

Environmental Assessment and Approvals

Australian Agricultural Company | Julia Creek, Gulf Country Region, QLD

GHD was commissioned to undertake ecological assessments to inform the environmental approvals to support AACo's proposed Gulf Irrigation Project: the conversion of 1,600 ha of grazing land from grazing to irrigated cropping using an existing water allocation.

Field surveys included habitat assessment, water quality, fish and turtle surveys. Lauren led the aquatic component of the fieldtrips, completed data entry and analysis and reporting.

Chinchilla Beneficial Use Agreement: Aquatic Ecology and Water Quality Monitoring

SunWater | Western Downs Region, QLD.

Receiving environment monitoring surveys of aquatic ecology (aquatic habitat, aquatic plants, macroinvertebrates and freshwater fish), and water quality (in situ and analytical water quality), was required for the Chinchilla Weir Beneficial Use Water Supply Scheme. The surveys included assessing baseline patterns of aquatic ecology and biodiversity in the Condamine River, and assessing potential impacts from the discharge of treated coal seam gas water for the Beneficial Use Scheme. Lauren was the project manager, fieldtrip leader, led laboratory analysis of macroinvertebrates, completed data entry and analysis and undertook reporting for this project.

Environmental Impact Statement, Aquatic Ecology Assessment

Walton Coal | Central Highlands Region, QLD.

This project involved an assessment of aquatic ecology for baseline monitoring of a mining lease. Aquatic ecology (aquatic habitat, aquatic plants, macroinvertebrates, stygofauna and freshwater fish), and water quality (in situ and analytical water quality) were surveyed. The assessment considered aquatic matters of national, state and local environmental significance, and included both desktop and field survey assessment methods. Lauren was the fieldtrip leader and completed data analysis for this project.

Glebe Beneficial Use Scheme Monitoring: Water Quality and Aquatic Ecology Monitoring

SunWater | Western Downs Region, QLD.

Monitoring was required for the Glebe Beneficial Use Scheme program. Monitoring was consistent with the Beneficial Use Agreement (BUA) and the Receiving Environment Monitoring Program (REMP) with regular surveys of water quality, sediment quality and aquatic ecology. Succinct technical reports were completed, summarising the conditions at each site and results against relevant guidelines. Lauren was the project manager, fieldtrip leader, led laboratory analysis of macroinvertebrates, data summarisation and reporting for this project.



Shannon Blatchford BSc

Senior Ecologist



Location

Brisbane, Qld, Australia

Experience

14 years

Qualifications/Accreditations

- Bachelor of Science in Ecology and Conservation Biology 2014 -2016
- RRTO Mine Induction Standard 11

Relevant experience summary

Shannon is a senior ecologist with 14 years' experience in environmental assessments and monitoring. Areas of special expertise include the survey and monitoring of terrestrial fauna including birds, mammals, reptiles and amphibians. Shannon also has experience in vegetation assessments, including protected plants flora surveys, marine plant surveys and rehabilitation monitoring. Shannon has demonstrated a capacity to undertake fauna surveys in different regions, having successfully undertaken fauna surveys for infrastructure projects in parts of Northern Territory, Queensland and New South Wales. She has experience in impact assessments, mitigation and threatened species management and monitoring. She has project experience having undertaken ecological assessments to support Environmental Impact Assessments and threatened species management plans across a range of industries including defence, local government, mining, oil and gas, wind, solar, water, telecommunications, road and rail.

Collinsville Coal Terrestrial Ecology Monitoring

**Lead Fauna Ecologist |
Glencore | Collinsville, Qld, Australia | January
2019**

Shannon was the lead fauna ecologist on the Collinsville Coal Terrestrial Ecology Monitoring project. Rapid baseline surveys, habitat assessments and small mammal trapping surveys were undertaken at multiple sites within the Mining Lease. The assessment was undertaken to assess temporal changes in the ecological value of rehabilitation land to determine the success of rehabilitation objectives in providing habitat for flora and fauna, and to ascertain the occurrence of conservation significant species.

Rehabilitation Monitoring and Ecological Assessments

**Lead Ecologist |
Arrow Energy | Moranbah & Dalby, Qld, Australia |
December 2017 – March 2018**

Ecological surveys of rehabilitation analogue sites were undertaken to assist in the development of completion criteria. The assessment included evaluating current rehabilitation state, and floristic composition and structure. Ecological assessments were undertaken to assess temporal changes in the ecological value of rehabilitation land to determine the success of rehabilitation objectives in providing habitat

for flora and fauna, and to ascertain the occurrence of conservation significant species.

Collinsville Coal REMP

**Ecologist |
Glencore | Collinsville, Qld, Australia | May 2017**

Shannon collected water and sediment samples for heavy metals analysis in association with sites within and adjacent to the Collinsville Coal Mine. Water quality sample results were assessed against licence conditions and guideline values and were also used to determine if there were any links to changes in the macroinvertebrate community attributed to mine affected water releases.

Big Rocks Weir Business Case

**Lead Fauna Ecologist |
Townsville Enterprise Limited (TEL) | Charters
Towers, Qld, Australia | December 2019**

Shannon was the lead fauna ecologist on the Big Rocks Weir Business Case for TEL. Rapid baseline ecology surveys and habitat assessments were undertaken within the impact area. Shannon prepared technical ecological assessment reports to support the environmental planning process.

Stuart Rail Yard Ecological Survey

Fauna Ecologist |

Aurizon | Townsville, Qld, Australia | March 2020

Shannon undertook ecological baseline surveys, and habitat assessments and targeted fauna surveys for the southern black-throated finch for the proposed subdivision and industrial development on the Stuart Rail Yard site in Townsville. The anticipated nature, magnitude, duration, and potential impacts on conservation significant species were assessed, and recommendations for potential mitigation measures were provided to avoid or minimise the project impacts during construction and operation phase.

Talisman Sabre NDTA 2019 Environmental Baseline Assessment

Lead Fauna Ecologist |

Department of Defence | Proserpine, Qld, Australia | October 2018

Shannon was the lead fauna ecologist on the Talisman Sabre NDTA 2019 project. Rapid baseline ecology surveys were undertaken on multiple properties within the Whitsundays Region. These surveys involved targeted searches for the northern quoll, Proserpine rock-wallaby, koala, northern greater glider, squatter pigeon, eastern curlew, and beach-stone curlew. Shannon prepared the technical ecological assessment reports to support the environmental planning process.

ASMTI Environmental Baseline Assessment

Lead Fauna Ecologist |

Department of Defence | Shoalwater & Greenvale, Qld, Australia | February 2019 – December 2019

Shannon was the lead fauna ecologist on the ASMTI Project for Defence. Rapid baseline ecology surveys and habitat assessments were undertaken on multiple properties near Shoalwater and Greenvale. These surveys involved targeted searches for terrestrial and coastal conservation significant fauna species. Shannon prepared the technical ecological assessment reports and land management reports.

Wangetti Trail Environmental Assessment

Fauna Ecologist |

Department of Innovation, Tourism Industry Development, and the Commonwealth Games | Wangetti, Qld, Australia | April 2019

Shannon undertook ecological baseline surveys and targeted fauna surveys for conservation significant species, such as the cassowary, Macleay's fig parrot, red goshawk, northern and spotted-tail quoll, Lumholtz tree kangaroo and several stream-dwelling frogs in the Wet Tropics World Heritage Area in far north Queensland.

Burdekin Falls Dam Raising Ecological Studies – Phase 1

Lead Fauna Ecologist | SunWater | Burdekin Dam, Qld, Australia | November 2018

Shannon was the lead fauna ecologist on the Burdekin Falls Dam project. Rapid baseline ecology surveys, habitat assessments and targeted terrestrial fauna surveys for conservation significant species were undertaken during the pre-wet season phase of the project.

South Burnett Coal Mine EIS

Fauna Ecologist |

MRV Tarong Basin Coal | Kingaroy, Qld, Australia | October 2017

Shannon undertook ecological baseline surveys for the EIS for a proposed new coal mine and transport corridor between the South Burnett coal mine at Kingaroy and the existing south coast rail line at Miva. Shannon was also involved in the preparation of the technical ecology reporting to support the EIS.

Granite Mine Ecological Assessment

Fauna Ecologist |

Royal Duke Holdings Pty Ltd | Cherrabah, Qld, Australia | October 2018

Shannon has undertaken ecological baseline surveys and targeted fauna surveys for conservation significant species, including the spotted-tailed quoll, koala, greater glider, Hastings river mouse, powerful owl and border thick-tailed gecko. Shannon was involved in the preparation of the EAR.

Aldoga Solar Farm Ecological Impact Assessment

Fauna Ecologist | Acciona Energy | Gladstone, Qld, Australia | April 2018

Shannon undertook ecological baseline surveys and targeted fauna surveys for conservation significant species, including the koala, greater glider, powerful owl, squatter pigeon and tusked frog. Shannon was involved in the preparation of the Ecological Assessment Report and EPBC referral.

Davenport Downs Bilby Monitoring

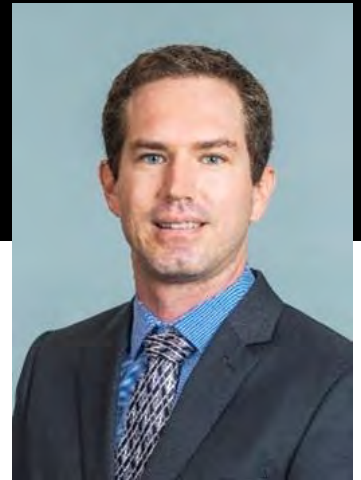
Fauna Ecologist | APA Group | Davenport Downs, Qld, Australia | November 2017

Shannon was involved in a long-term monitoring program that included targeted surveys of the greater bilby for a gas compressor station at Davenport Downs, western Queensland.



Tim Moeser

Environmental Scientist



Location

Brisbane, Qld, Australia

Experience

6 years

Qualifications/Accreditations

- Central Queensland University BSc Aquatic Resource Management 2007

Key technical skills

- OHS White Card
- Remote Pilots Licence (Drone)
- Dive Master Certification

Relevant experience summary

Tim is an Environmental Scientist with GHD based in Southeast Queensland. His background includes aquatic ecology, bushland and river restoration, water quality monitoring and on-site environmental management. Tim has worked in several regions including North Queensland, Central Queensland, and Western Australia.

Noah Creek Bridge Project

**Environmental Scientist |
Douglas Shire Council | Cape Tribulation, Qld,
Australia |**

Tim was involved with the Noah Creek Bridge Project, compiling an Environmental Management Plan and assisting with the Ecological Assessment for the proposed project. These were used in a referral to the commonwealth under the Environmental Protection and Biodiversity Conservation Act 1999 to determine if the project would have a significant impact on World Heritage Values.

Proposed hydropower project in the Burdekin River.

**Environmental Scientist |
Stanwell Corporation Limited | Burdekin, Qld,
Australia |**

Tim conducted an aquatic assessment for a proposed hydropower project in the Burdekin River. Tim carried out aquatic habitat quality and condition assessments, verified mapped waterways in the study area and undertook waterway barrier works assessments at representative locations for the project.

Compliance Monitoring

**Environmental Scientist |
Tablelands Regional Council | Tablelands |**
Tim undertook compliance monitoring at landfill sites and sewage treatment plants in the Tablelands district. Tim carried out field sampling for soil, surface water, groundwater, and leachate at each site to ensure compliance under the Council's environmental authority and Environmental Impact Monitoring Program.

The Point Walter foreshore restoration project

**Environmental Technician |
Melville Shire Council | City of Melville, Perth, WA,
Australia |**

Tim was involved with the Point Walter foreshore restoration project. The main objective of the project was to improve beach erosion whilst improving public use of the area. These objectives were achieved through erosion control gabion cages and geo-fabric, weed removal, revegetation with native salt tolerant species and the installation timber decking for public use.

Green Sawfish Data Collection

**Marine Scientist |
Department of Agriculture and Fisheries | Weipa,
Qld, Australia |**

Tim was a member of the sawfish research team travelling up to Weipa to capture and collect data on the green sawfish (*Pristis zijsron*). The data was used in a report to determine population distribution and a national recovery plan for the critically endangered species.

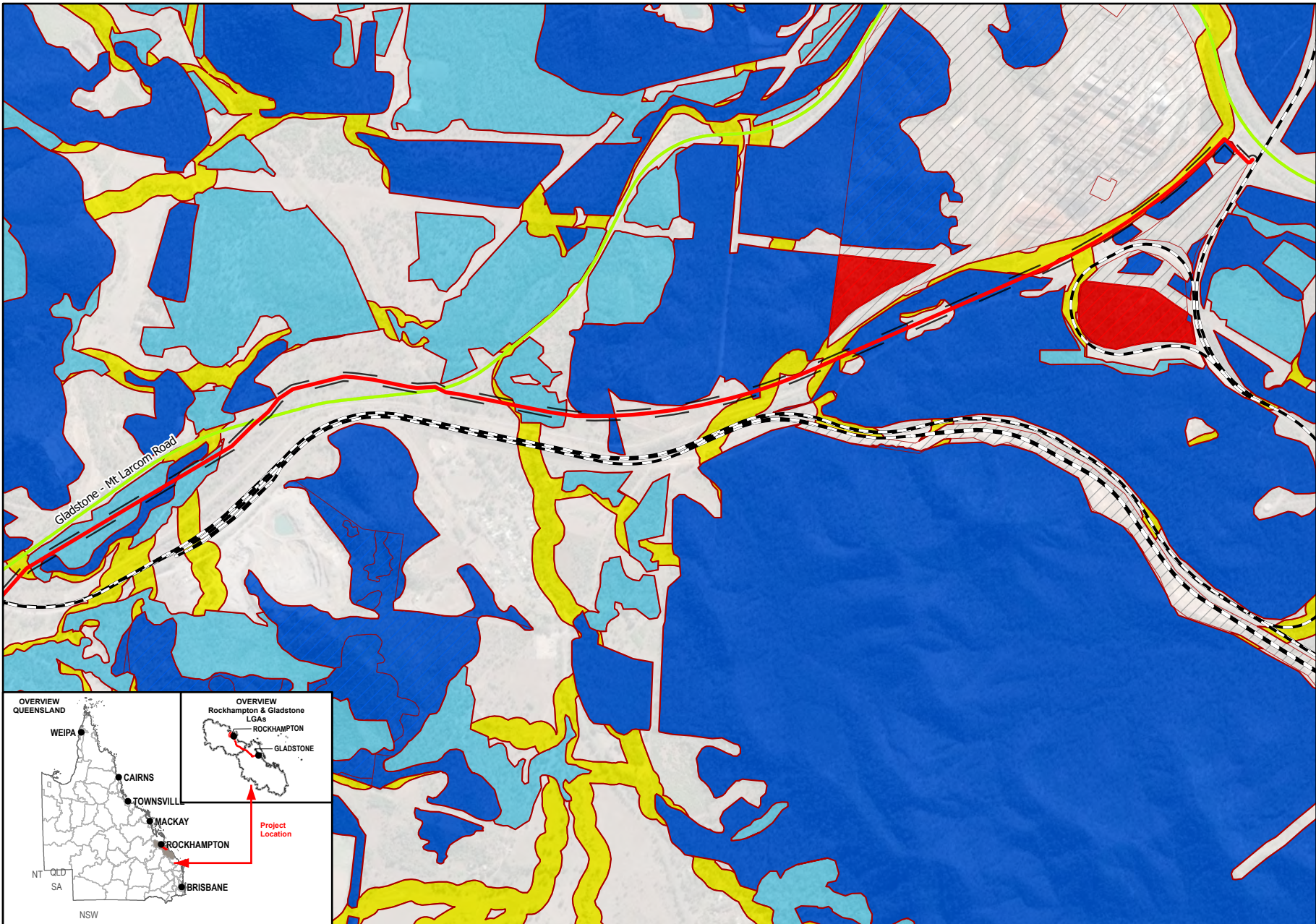
Turtle Research




**Marine Scientist |
Cape York Sustainable Futures | Cape York, Qld,
Australia |**

Tim was part of the turtle research team, monitoring the nesting of Flatback (*Natator depressus*) and Olive Ridley (*Lepidochelys olivacea*) turtles. This incorporated working with Traditional Owners and Wik and Kugu Rangers in remote locations south of Aurukun. The data was used in an action plan for the culling of feral pigs in Cape York.

Appendix C

**Mapped regulated vegetation and REs
intersected by the pipeline alignment**



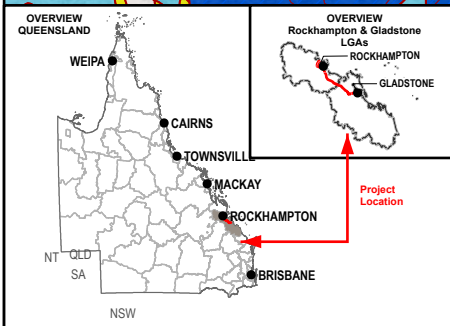



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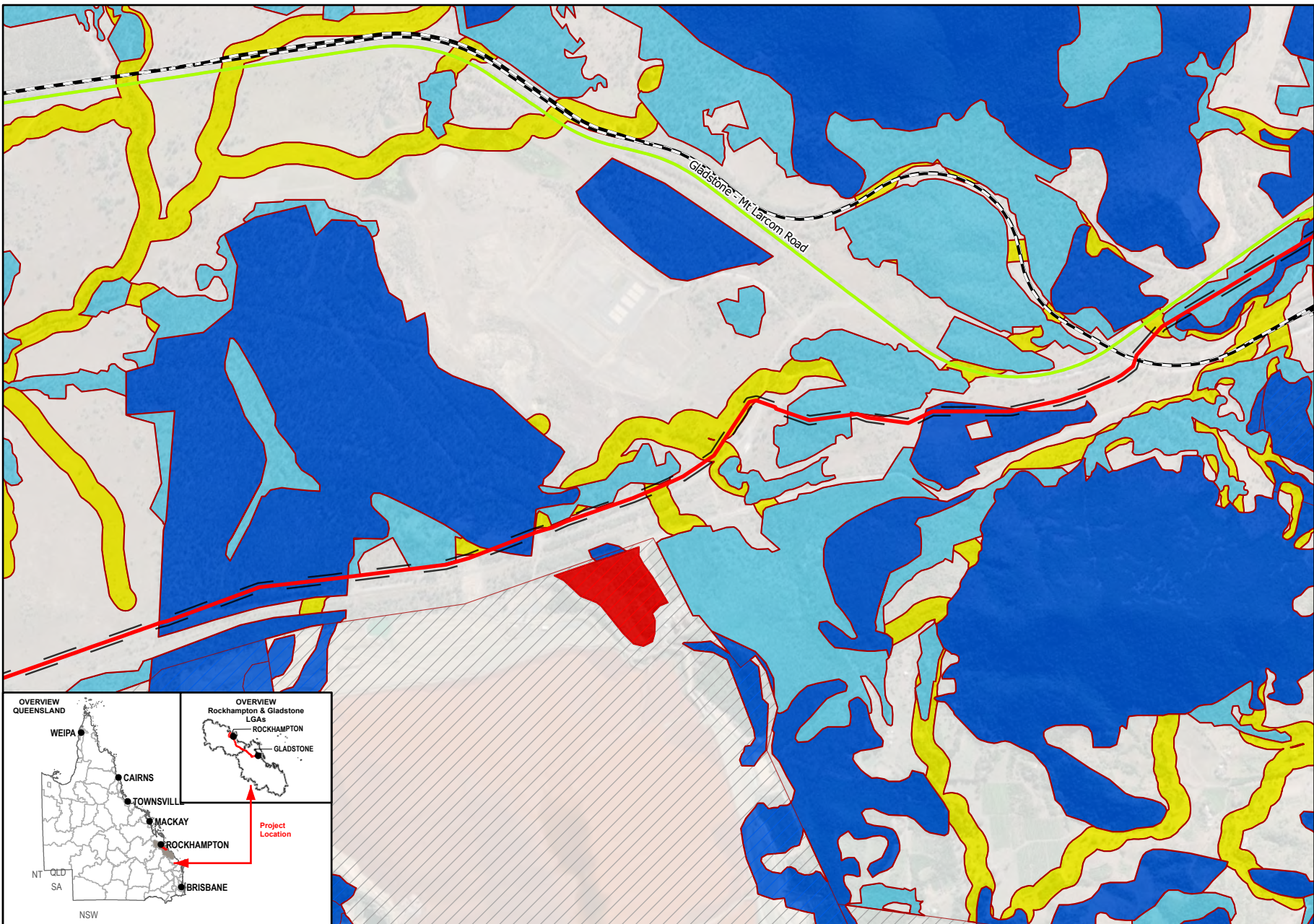
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- Regulated Vegetation Management Map**
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- Property Map of Assessable Vegetation**
- Category A
 - Category B
 - Category X




Data Sources:

1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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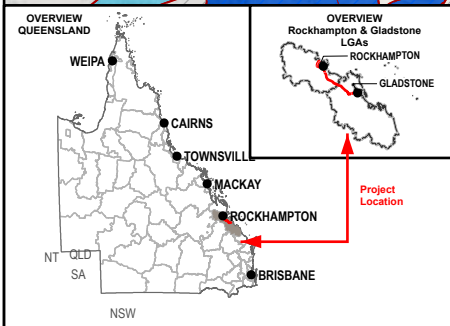



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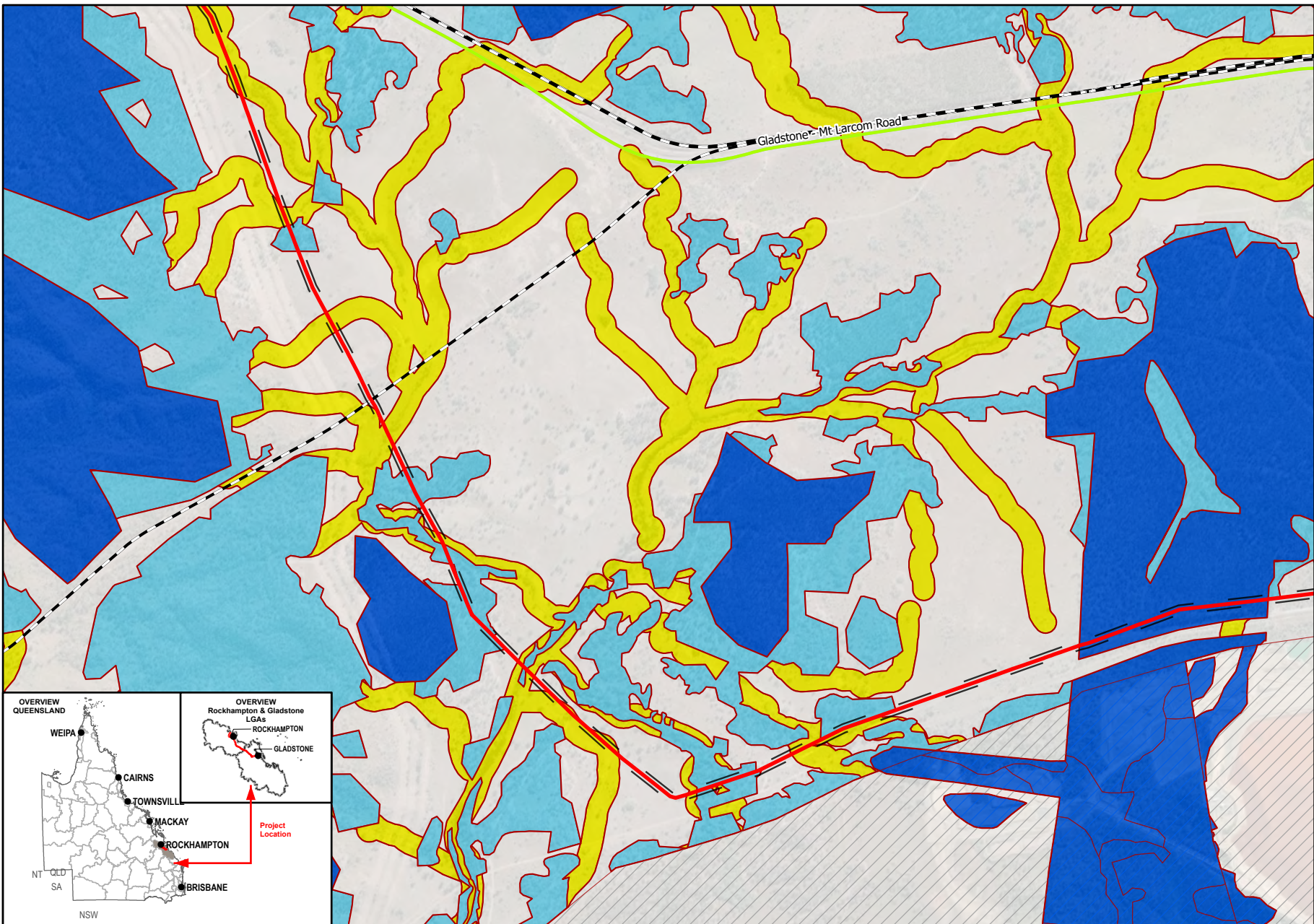
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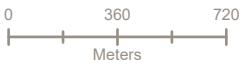
Data Sources:











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 Member of the Surbana Jurong Group

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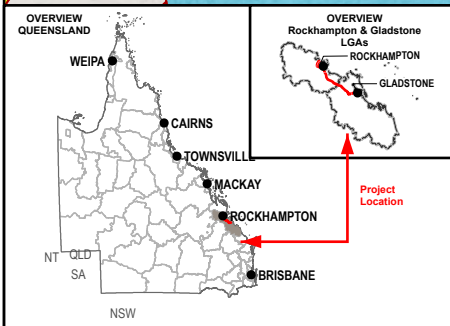
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 -  Railways
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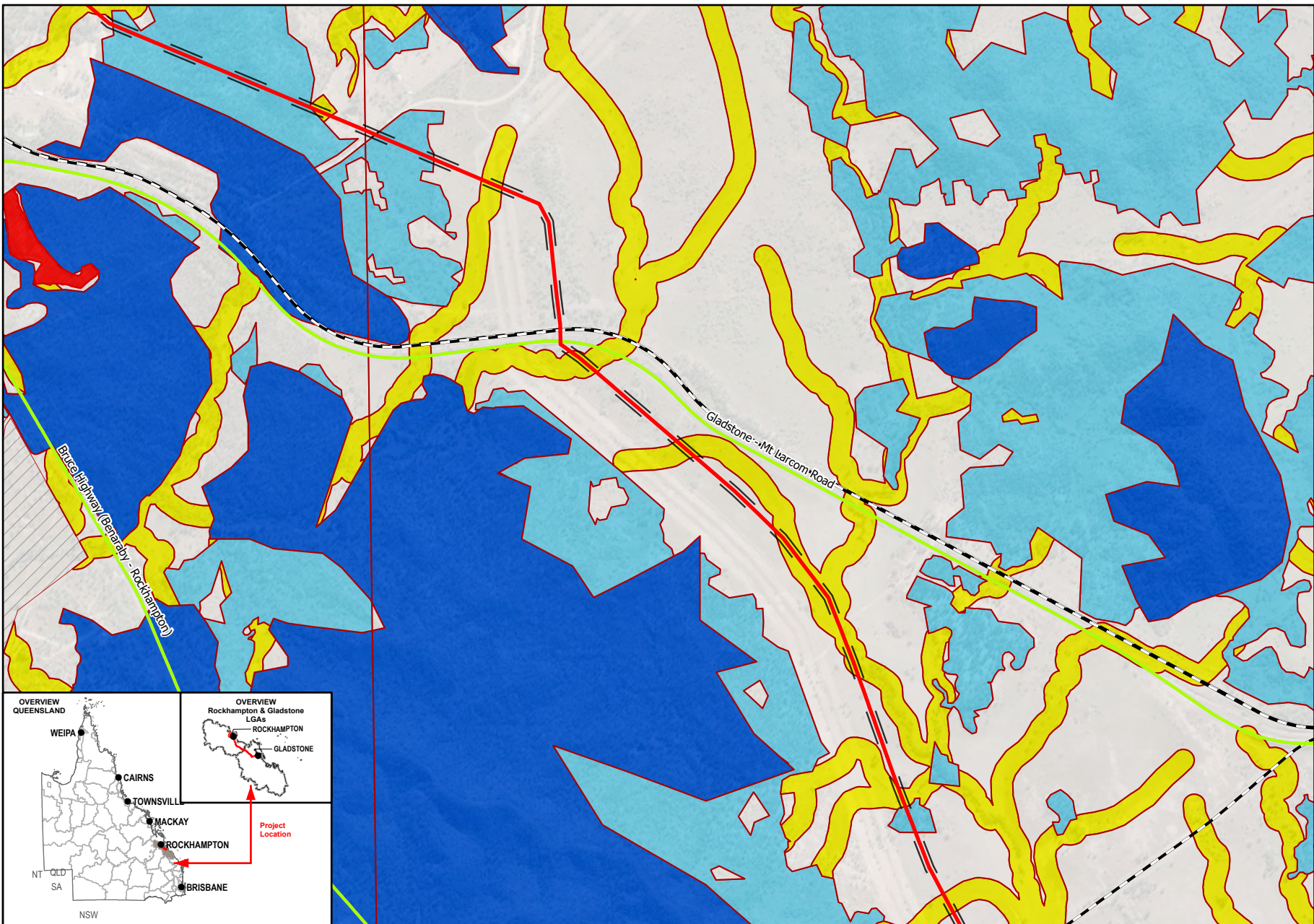
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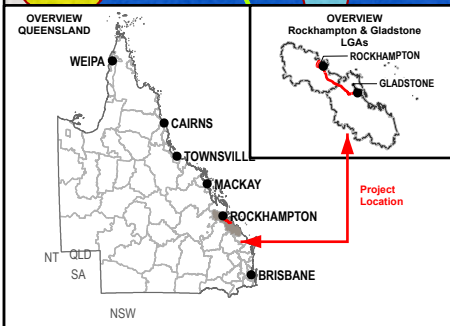
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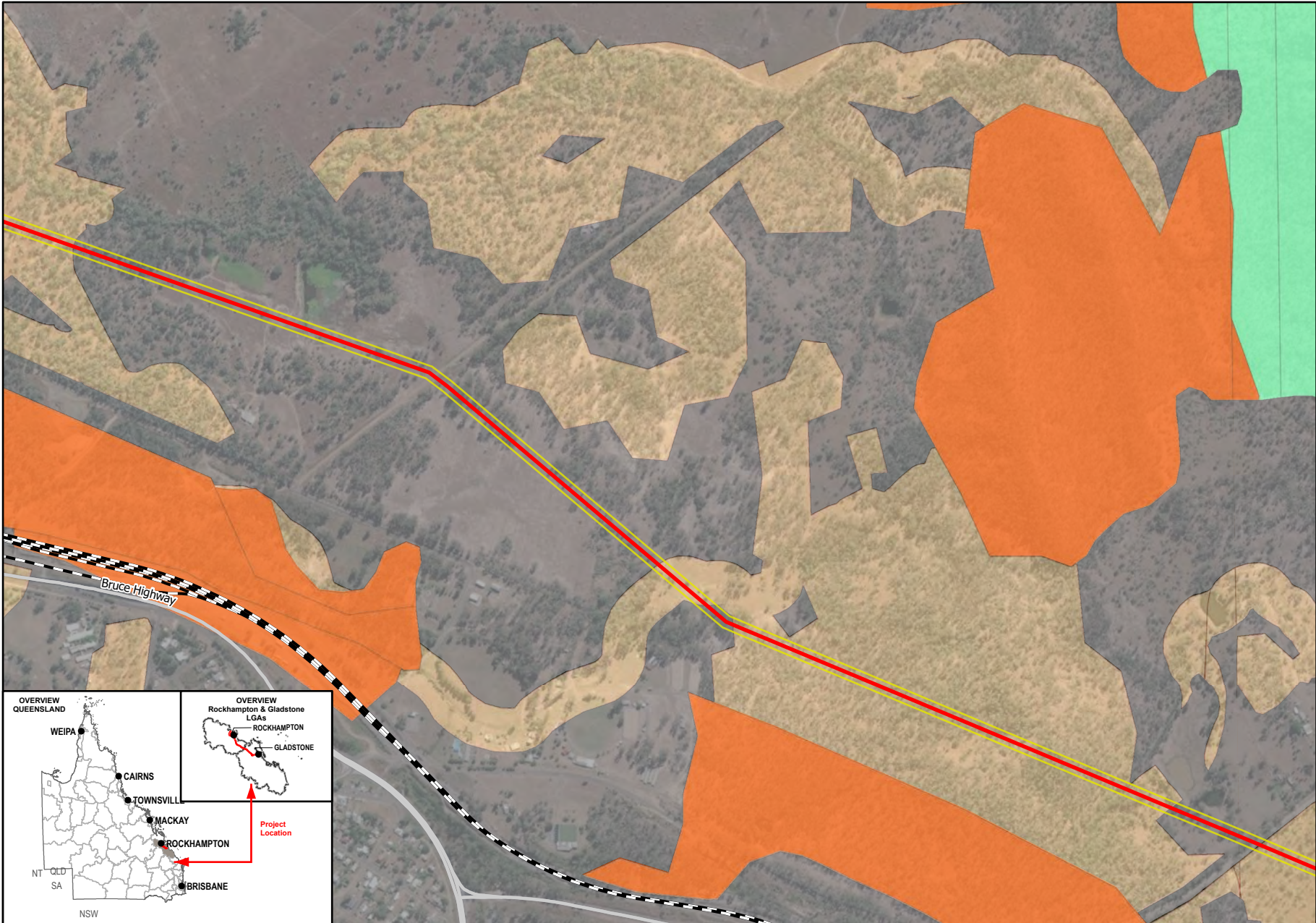
- Legend**
- Pipeline Alignment
 - Study Area
 - Main Roads
 - Railways
- Regulated Vegetation Management Map**
- Category A
 - Category B
 - Category C
 - Category R
 - Category X
- Property Map of Assessable Vegetation**
- Category A
 - Category B
 - Category X

Data Sources:

1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
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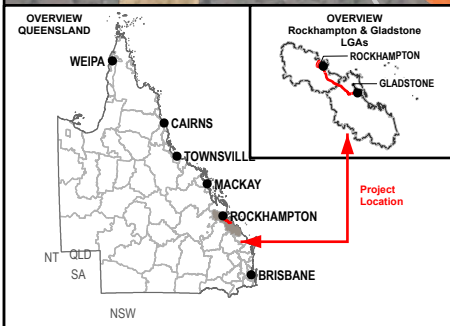
- Legend**
- Pipeline Alignment
 - Study Area
 - Main Roads
 - Railways
 - Category A or B area containing endangered
 - Category A or B area containing of concern
 - Category A or B area that is least concern
 - Category C or R area containing endangered
 - Category C or R area containing of concern
 - Category C or R area that is of least concern
 - Water
 - Non-remnant

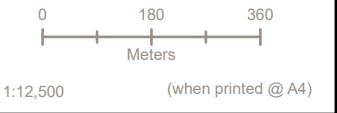
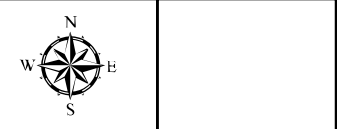
Data Sources:

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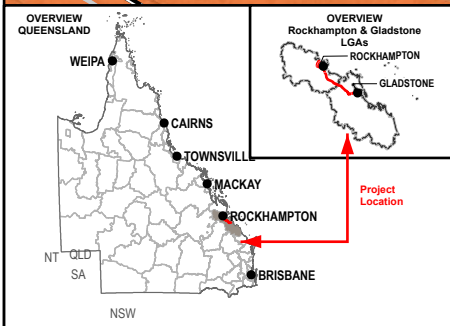


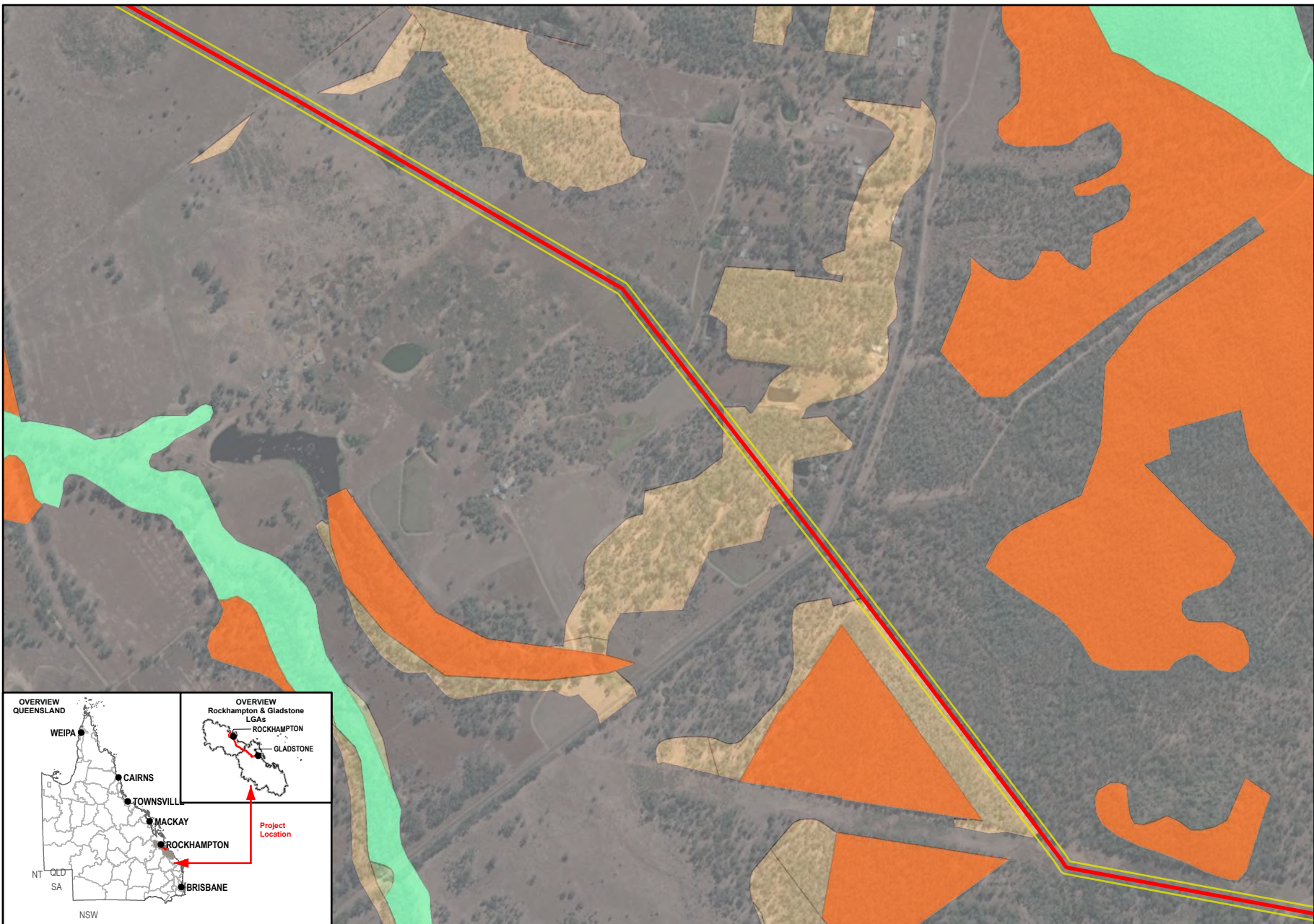


- Legend**
- Pipeline Alignment
 - Study Area
 - Main Roads
 - Railways
 - Category A or B area containing endangered
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 - Category A or B area that is least concern
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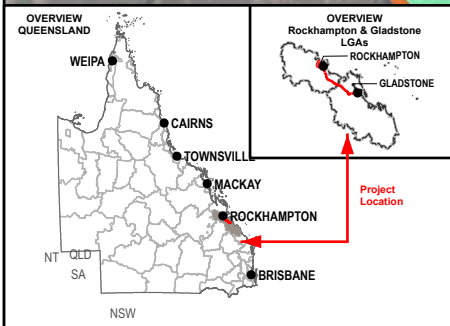


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- Legend**
- Pipeline Alignment
 - Study Area
 - Railways
 - Category A or B area containing endangered
 - Category A or B area containing of concern
 - Category A or B area that is least concern
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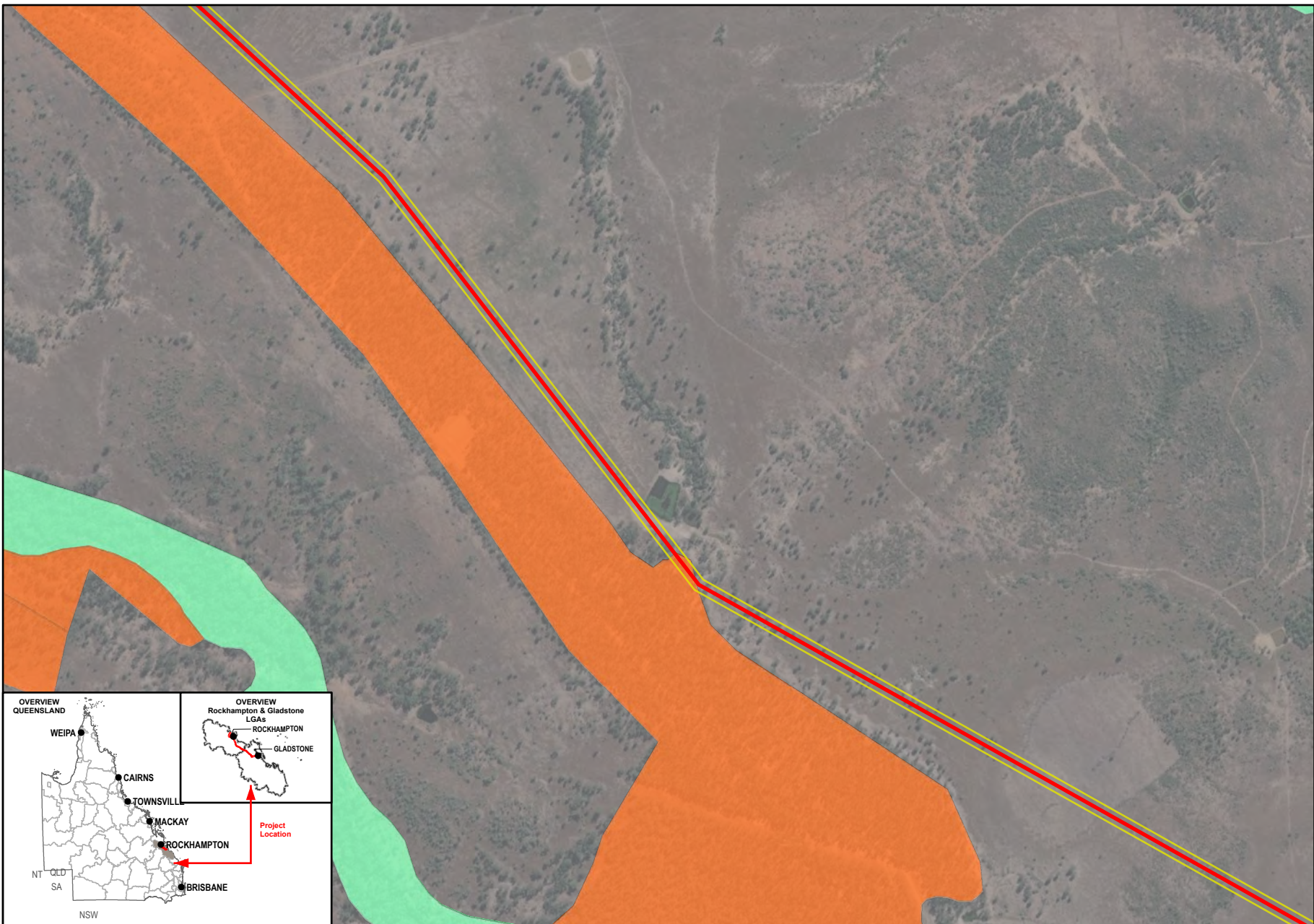


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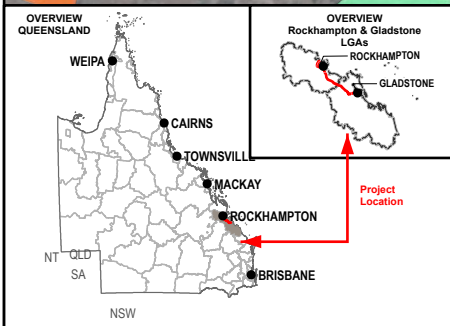
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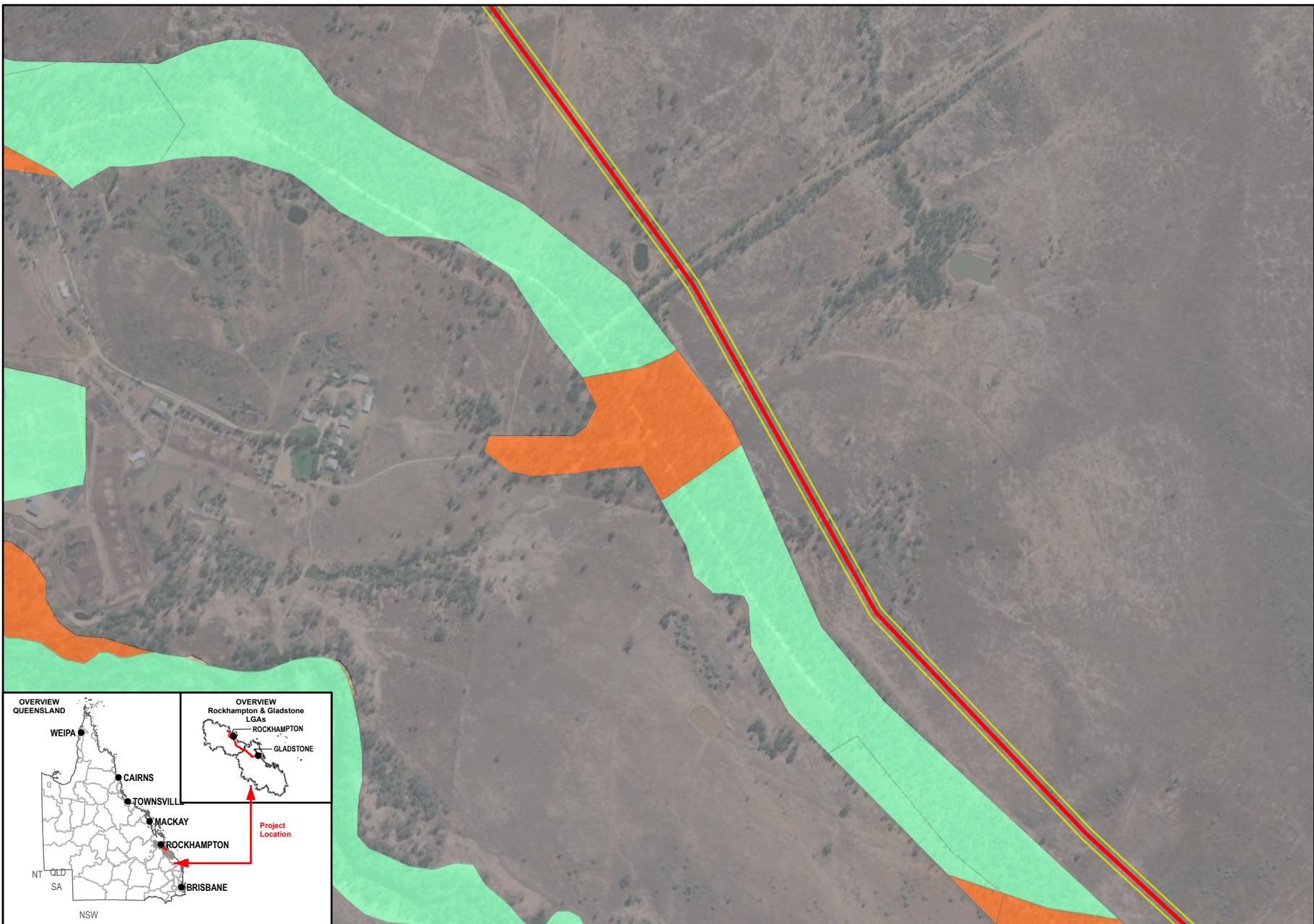
- Legend**
- Pipeline Alignment
 - Study Area
 - Category A or B area containing endangered
 - Category A or B area containing of concern
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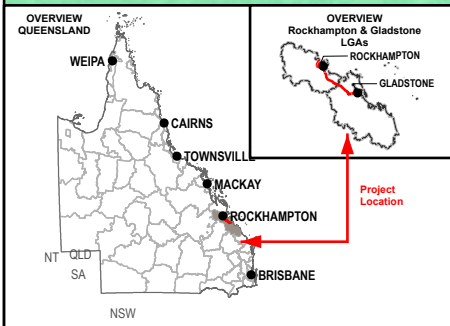
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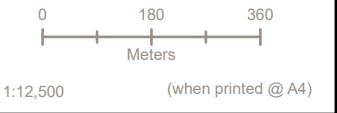
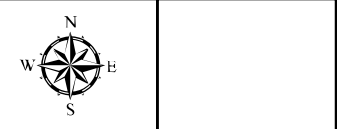
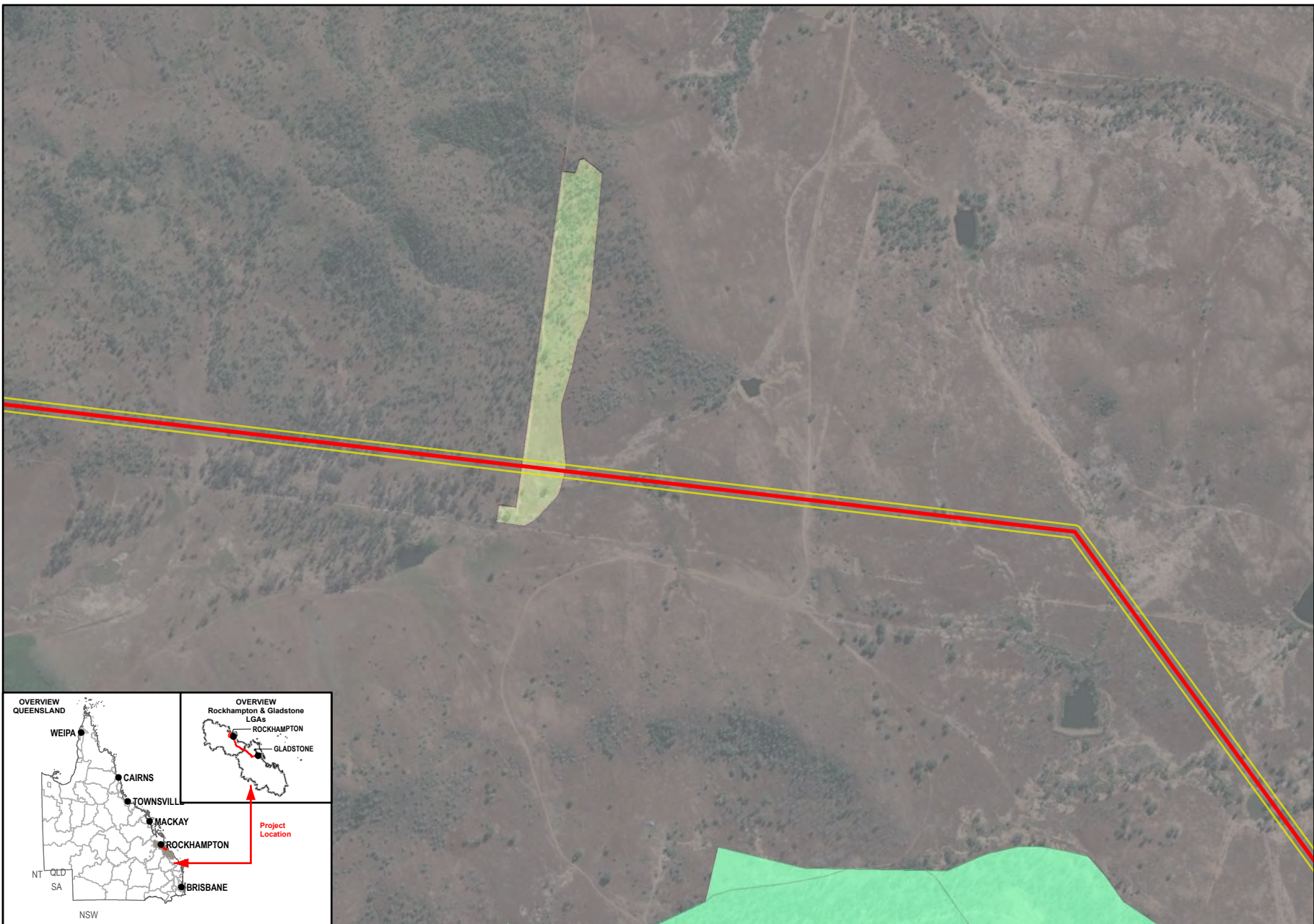
- Legend**
- Pipeline Alignment
 - Study Area
 - Category A or B area containing endangered
 - Category A or B area containing of concern
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 - Category C or R area containing endangered
 - Category C or R area containing of concern
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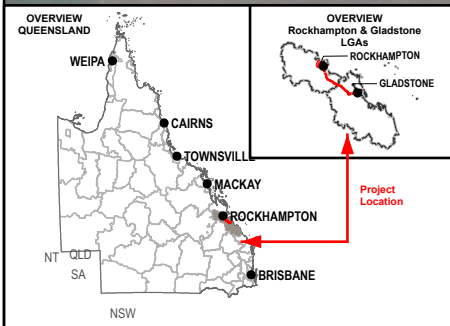


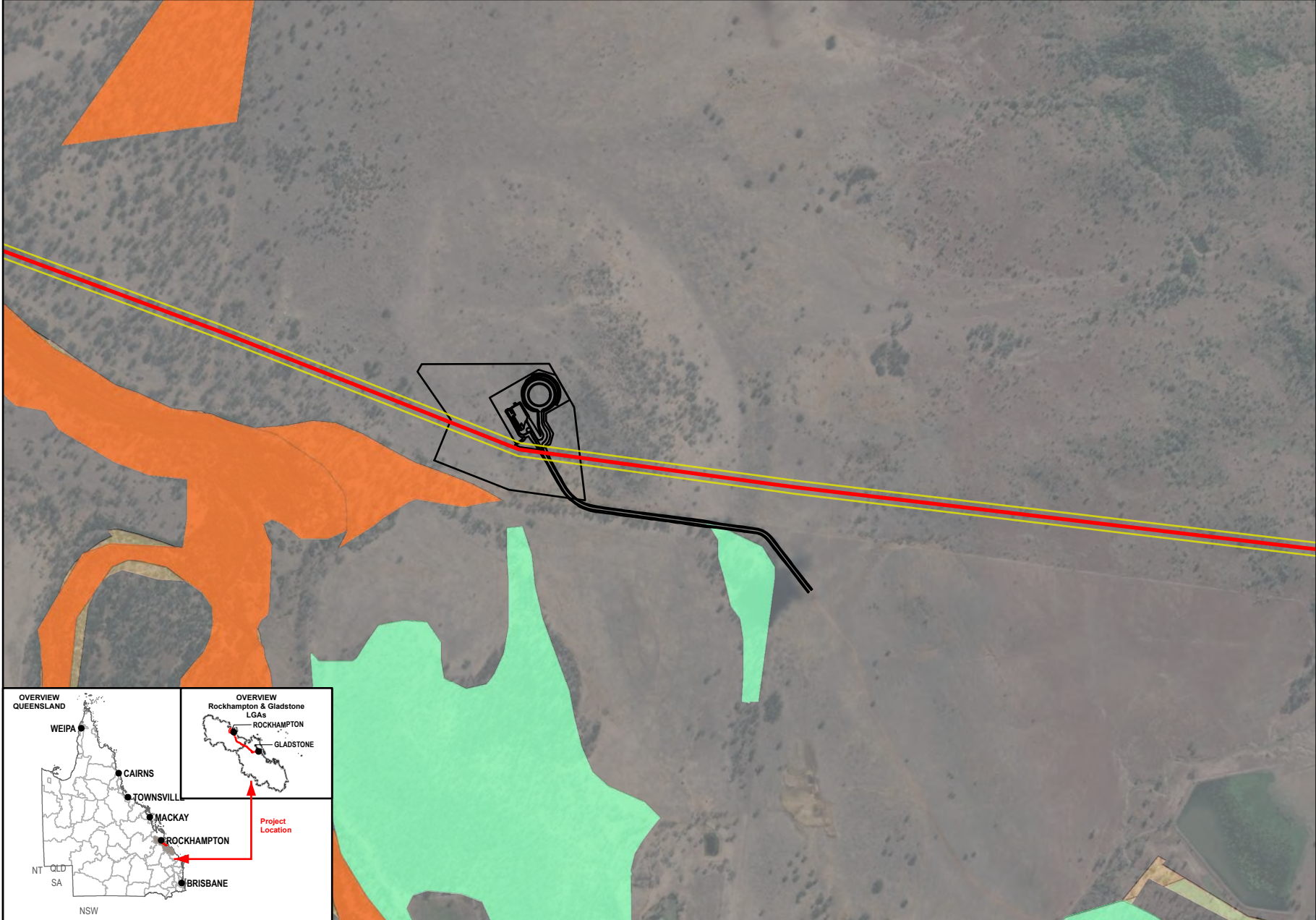


- Legend**
- Pipeline Alignment
 - Study Area
 - Category A or B area containing endangered
 - Category A or B area containing of concern
 - Category A or B area that is least concern
 - Category C or R area containing endangered
 - Category C or R area containing of concern
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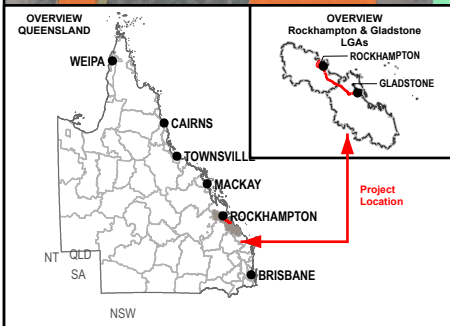
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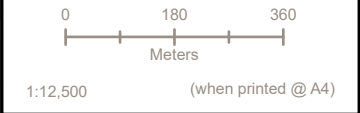
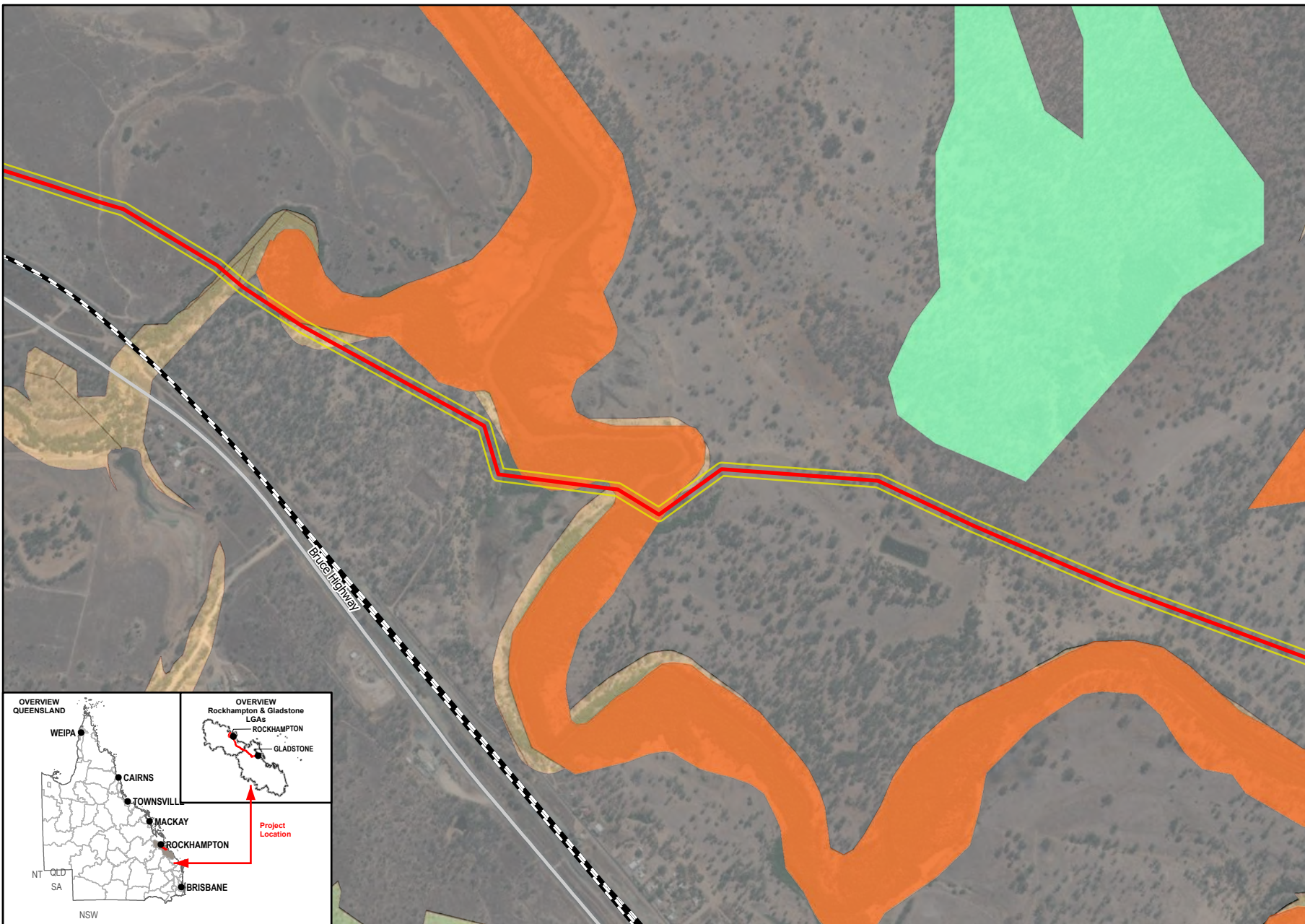
- Legend**
- Pipeline Alignment
 - Study Area
 - Category A or B area containing endangered
 - Category A or B area containing of concern
 - Category A or B area that is least concern
 - Category C or R area containing endangered
 - Category C or R area containing of concern
 - Category C or R area that is of least concern
 - Water
 - Non-remnant
 - Raglan Pump Station and Reservoir Layout

Data Sources:

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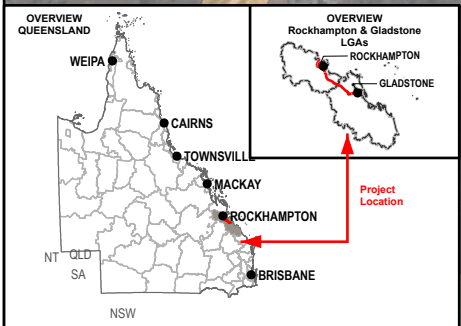


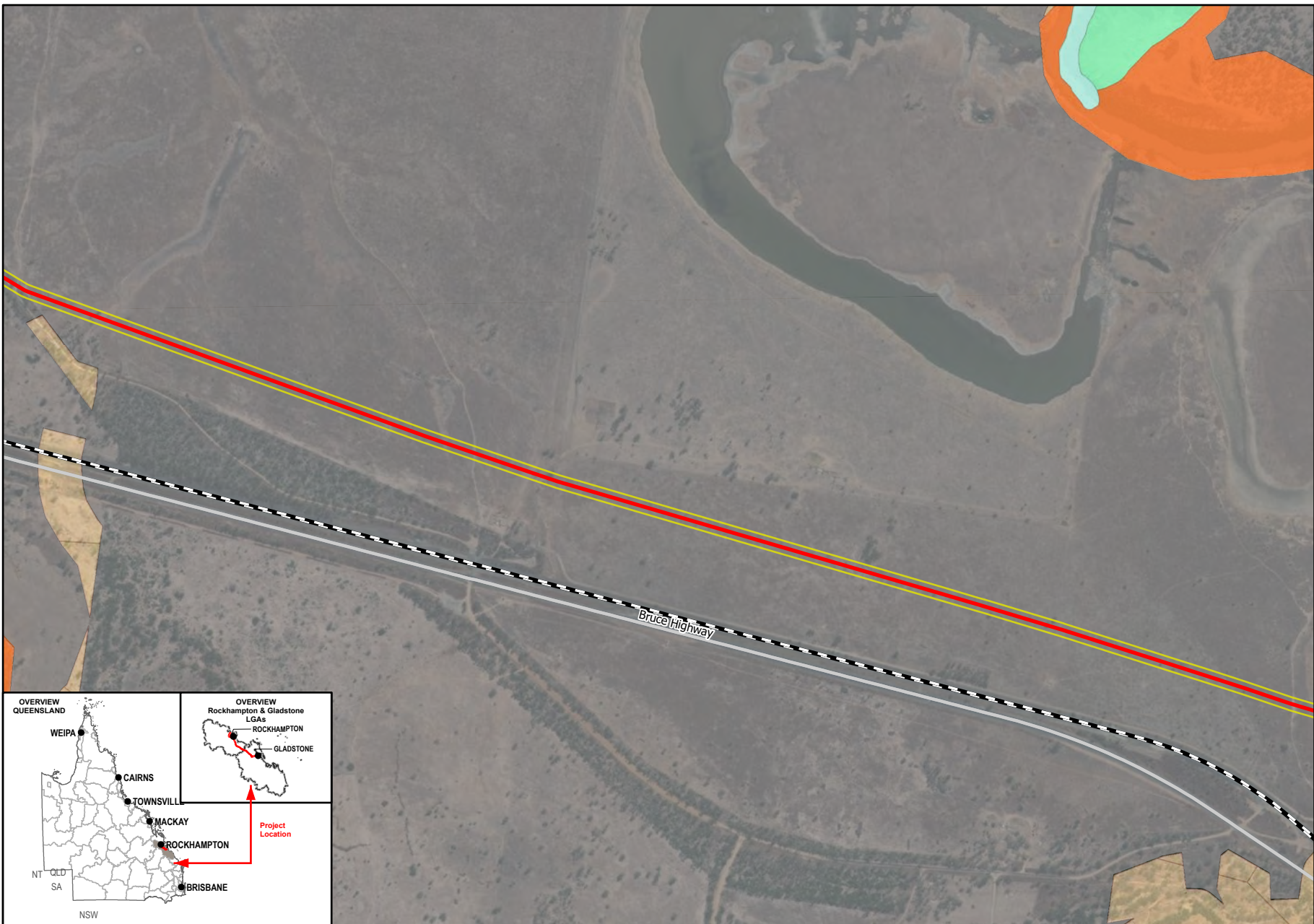
Legend

- Pipeline Alignment
- Study Area
- Main Roads
- Railways
- Category A or B area containing endangered
- Category A or B area containing of concern
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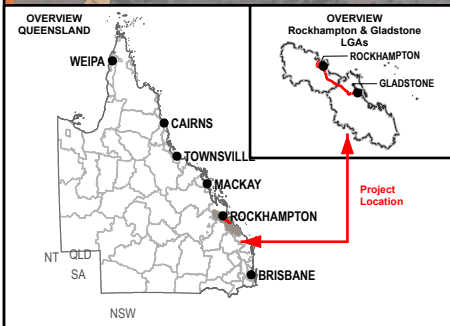
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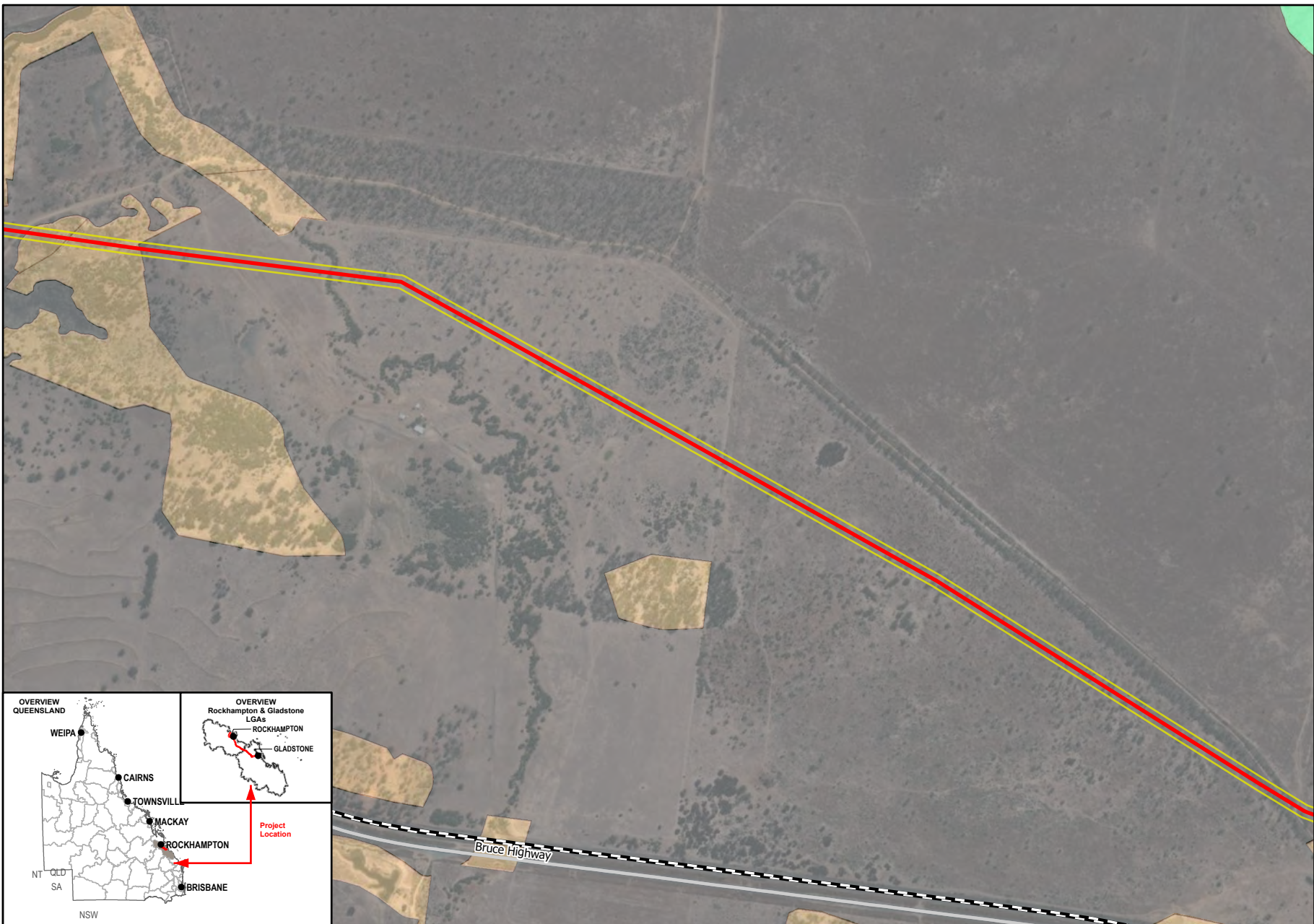
- Legend**
- Pipeline Alignment
 - Study Area
 - Main Roads
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 - Category A or B area containing endangered
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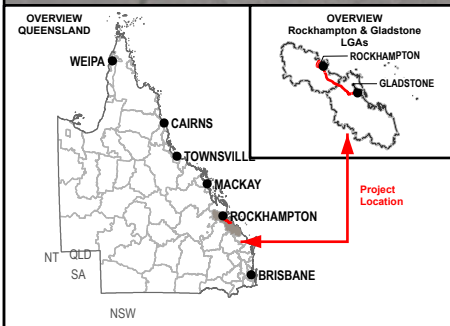
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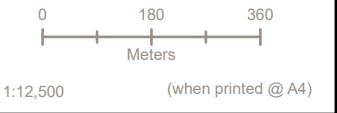
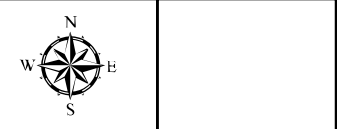
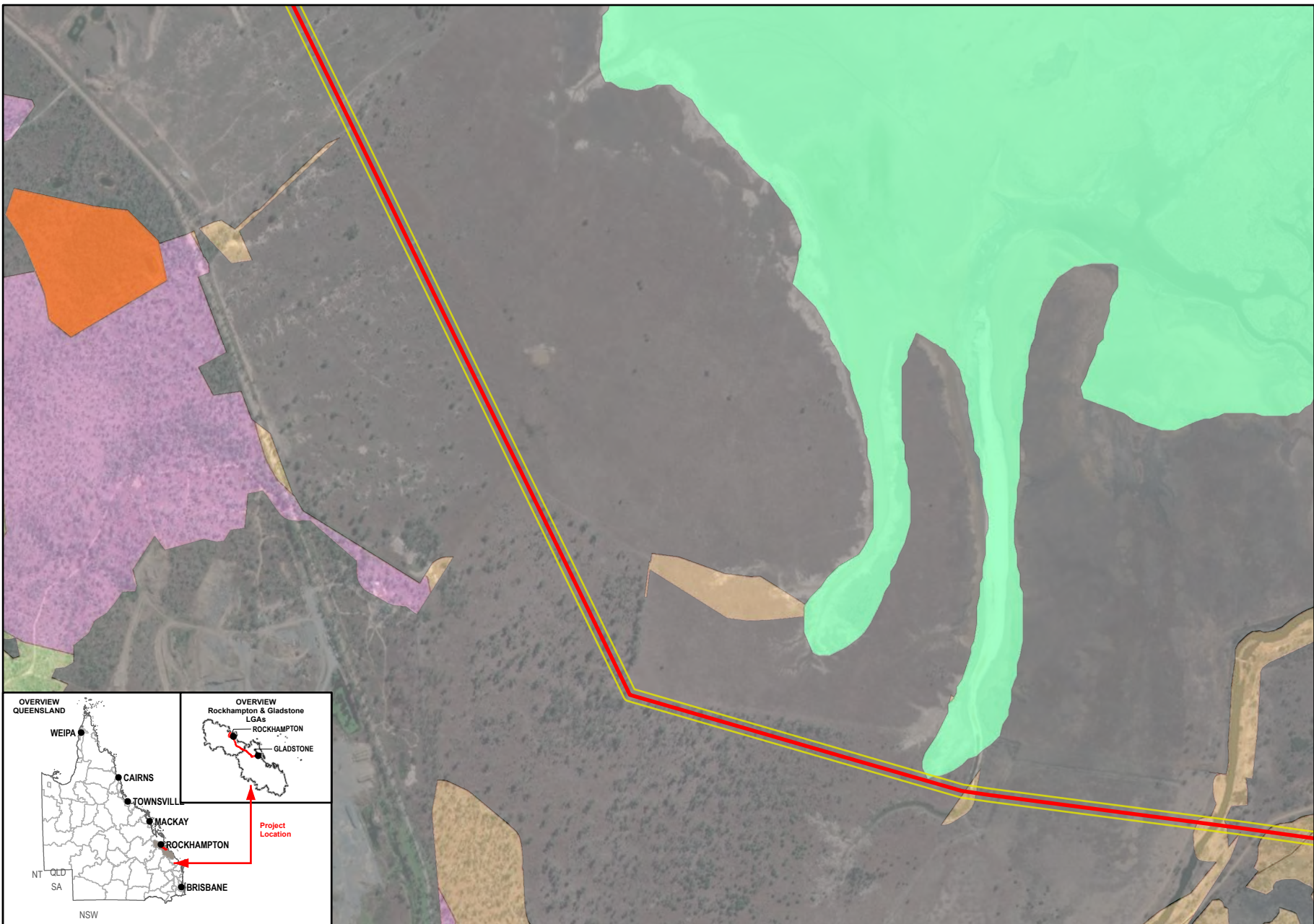
- Legend**
- Pipeline Alignment
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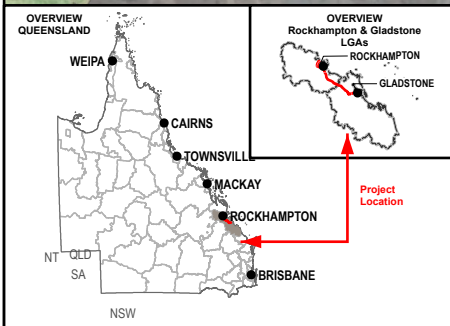


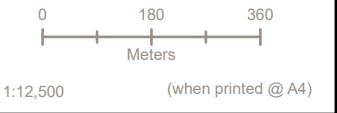
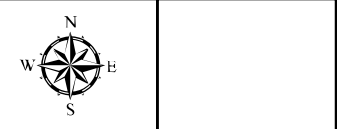
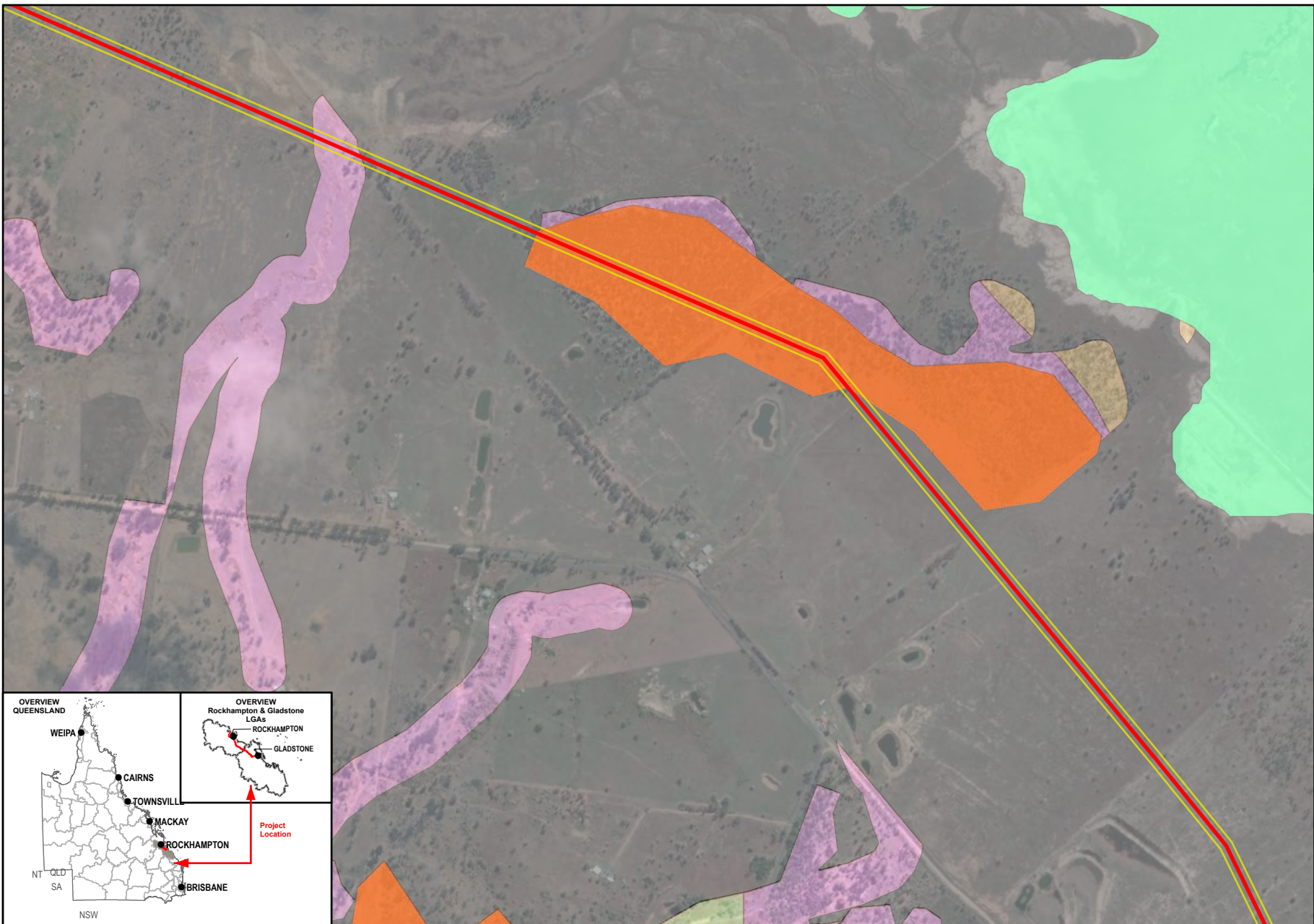


- Legend**
- Pipeline Alignment
 - Study Area
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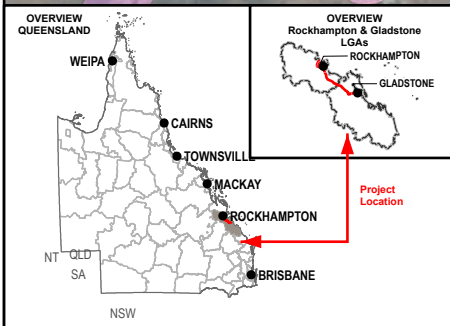


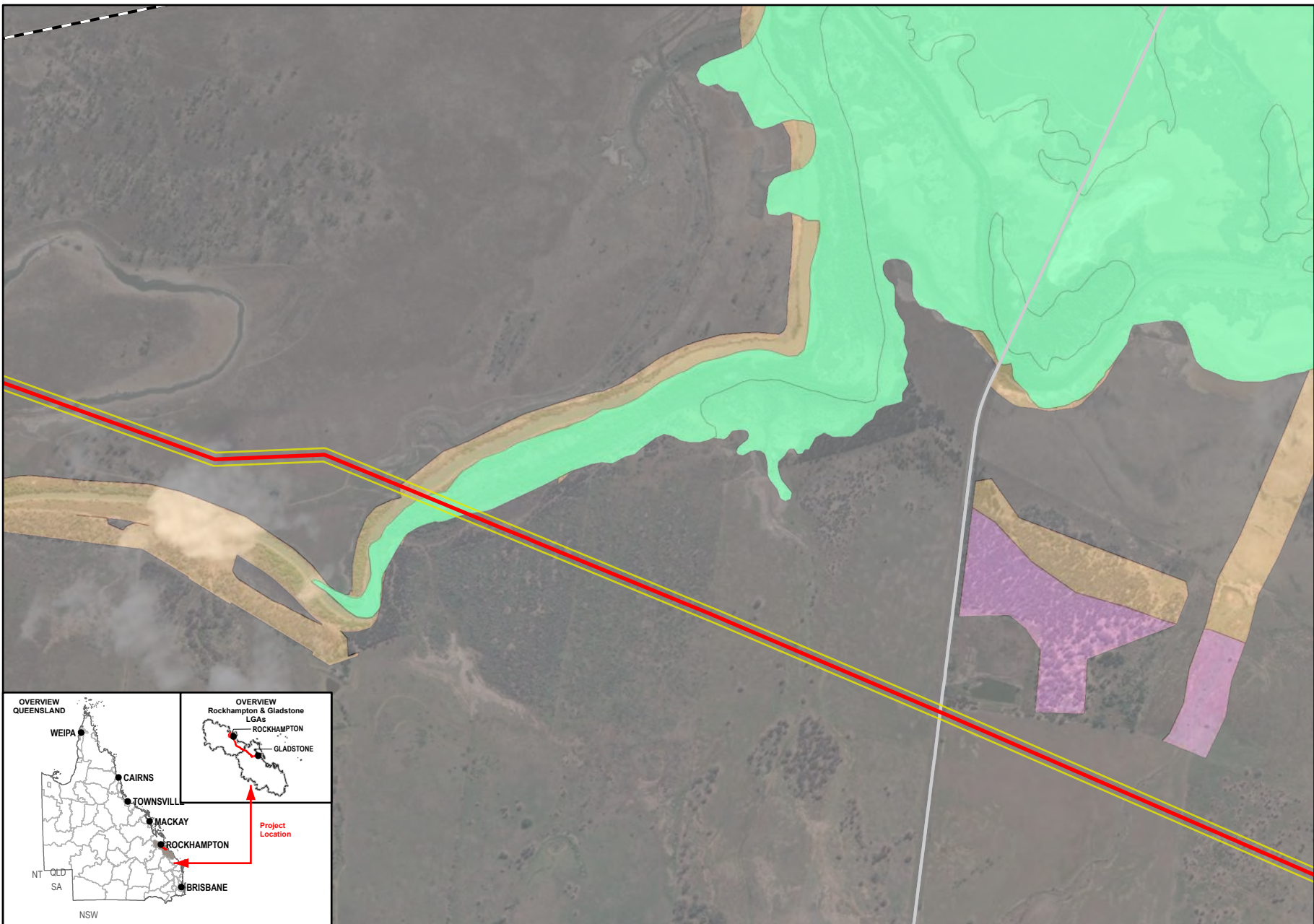



- Legend**
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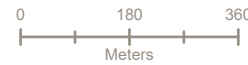






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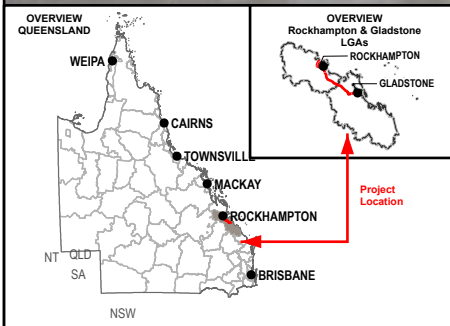
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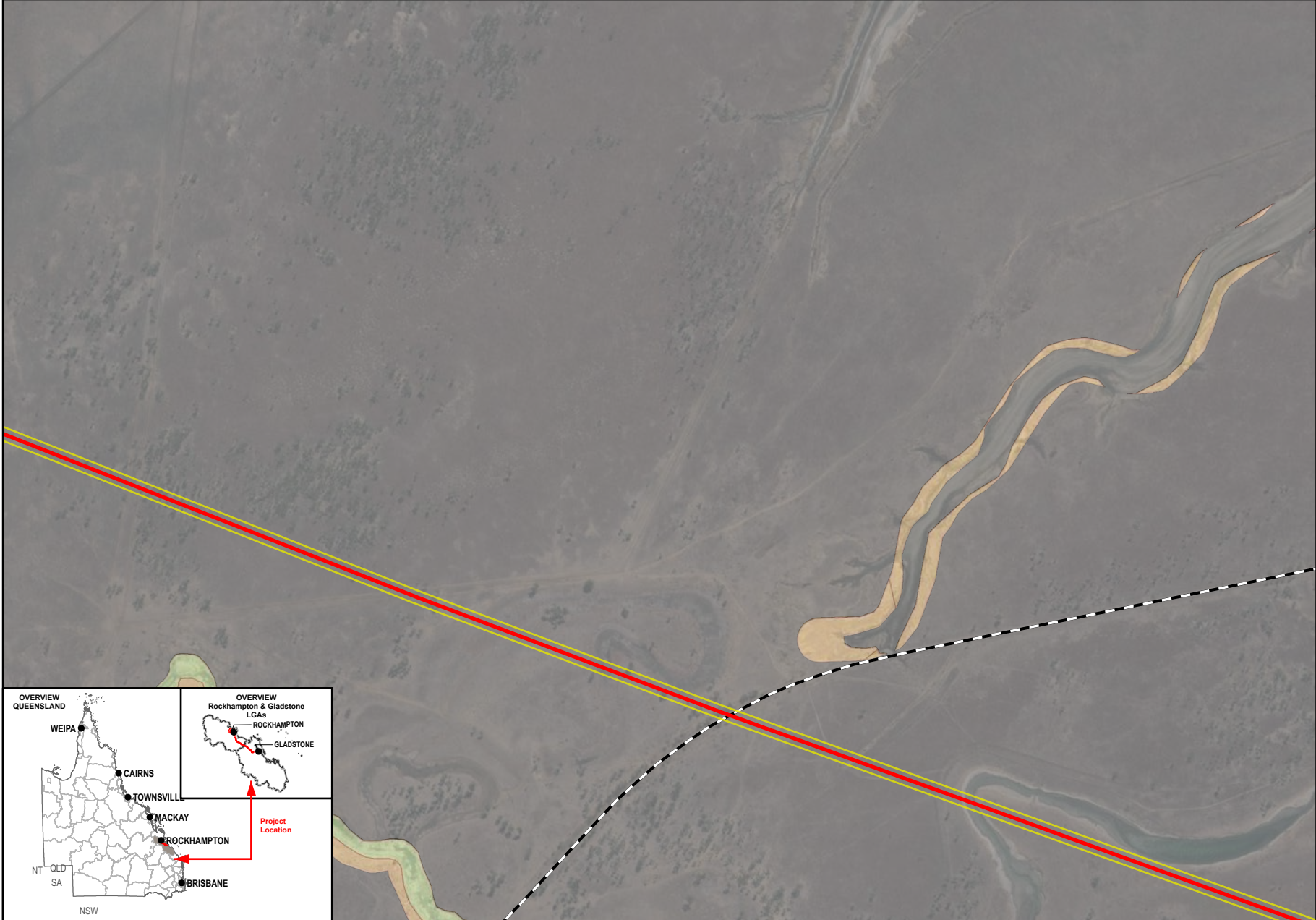
- Legend**
- Pipeline Alignment
 - Study Area
 - Main Roads
 - Railways
 - Category A or B area containing endangered
 - Category A or B area containing of concern
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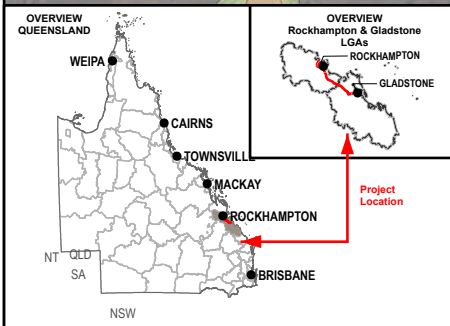
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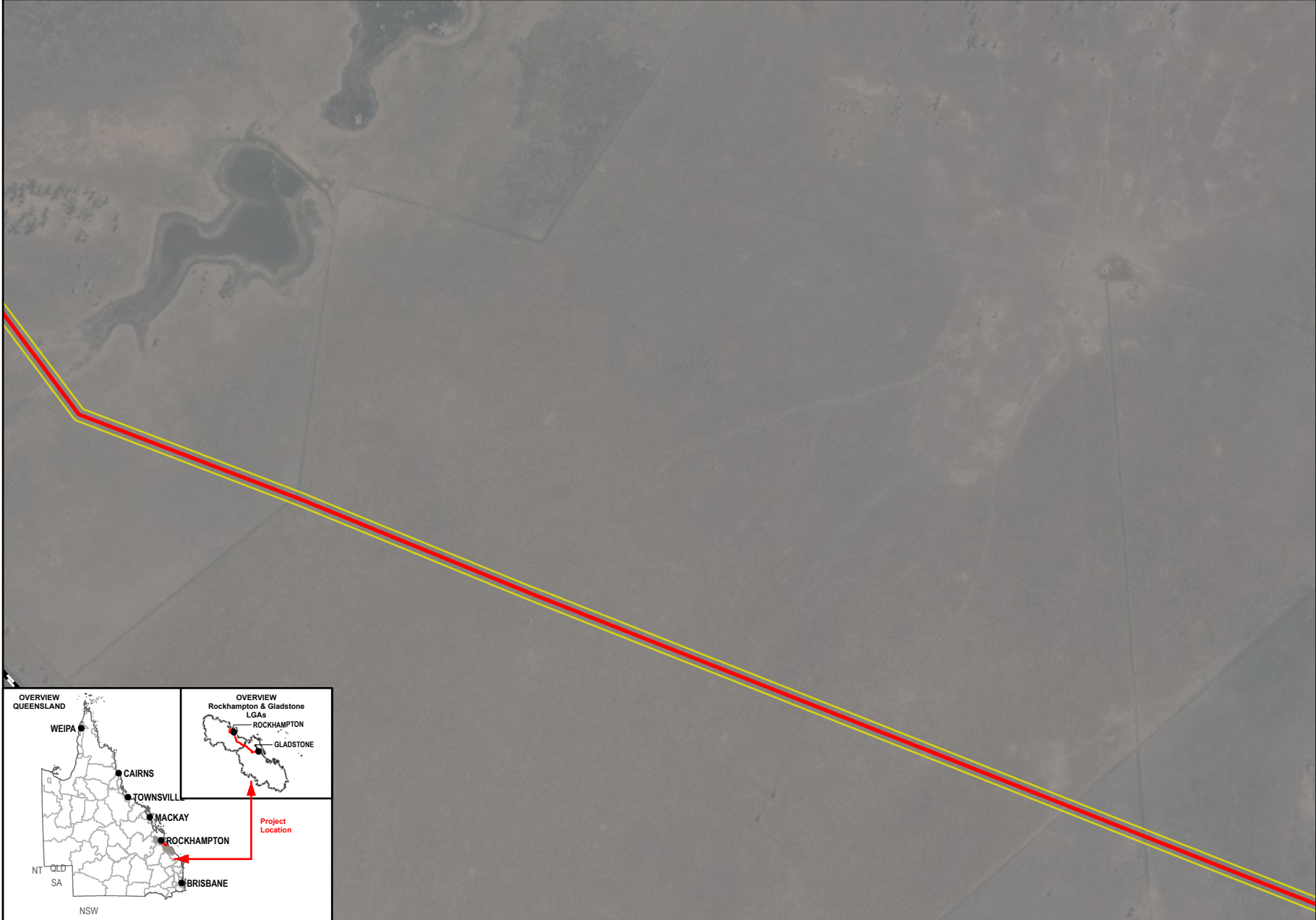
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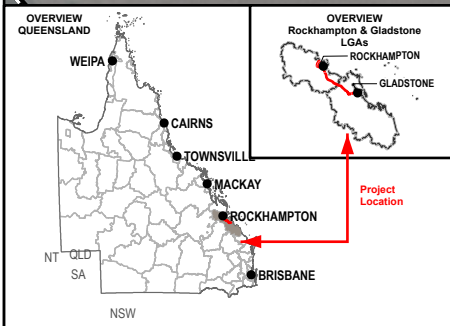
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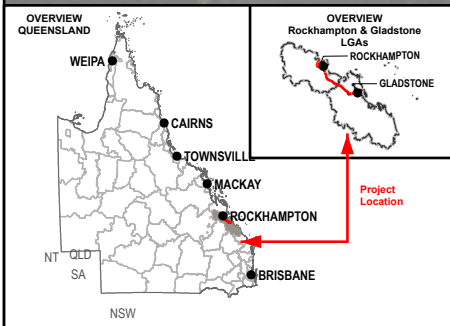
- Legend**
- Pipeline Alignment
 - Study Area
 - Main Roads
 - Railways
 - Category A or B area containing endangered
 - Category A or B area containing of concern
 - Category A or B area that is least concern
 - Category C or R area containing endangered
 - Category C or R area containing of concern
 - Category C or R area that is of least concern
 - Water
 - Non-remnant

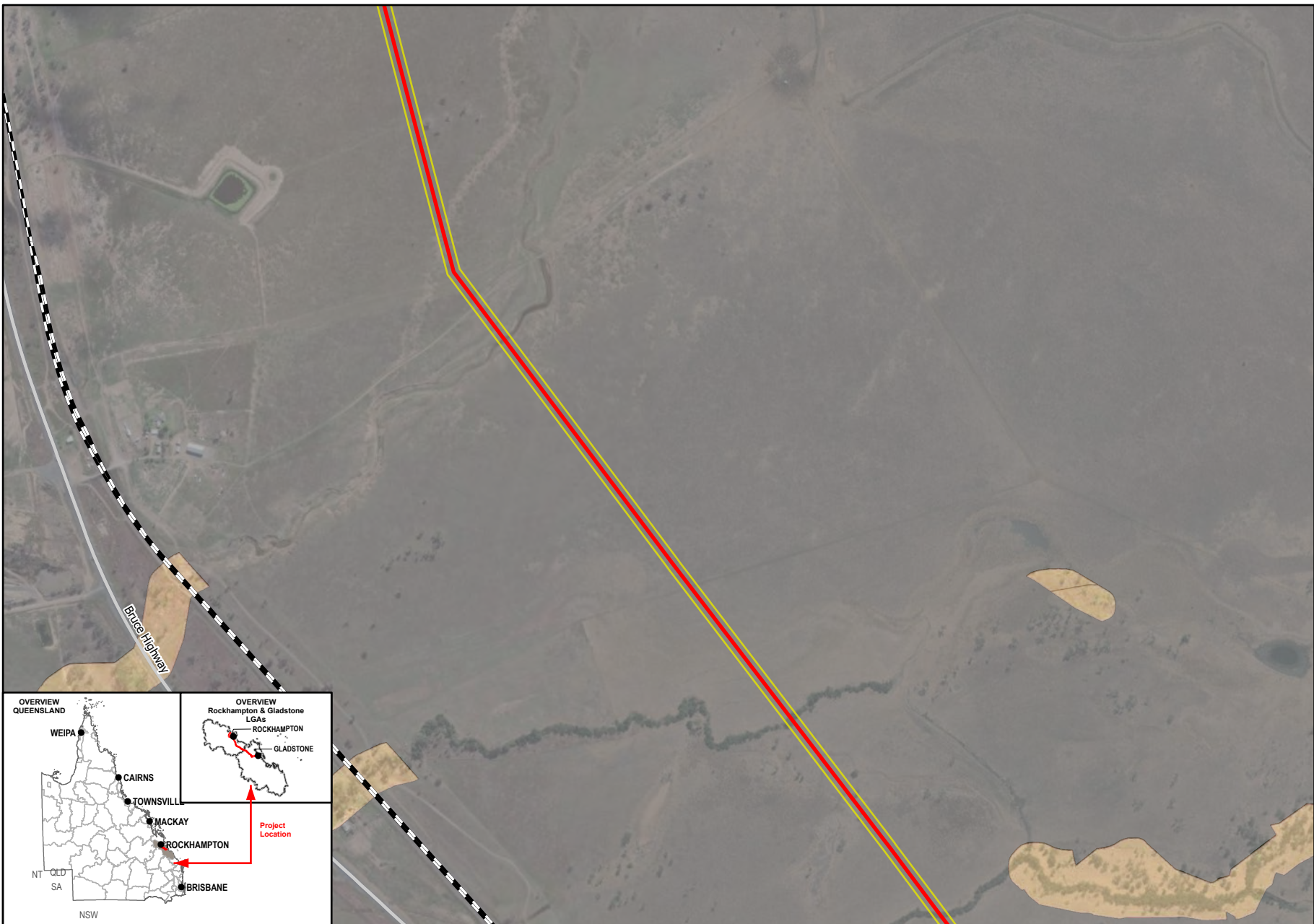
Data Sources:

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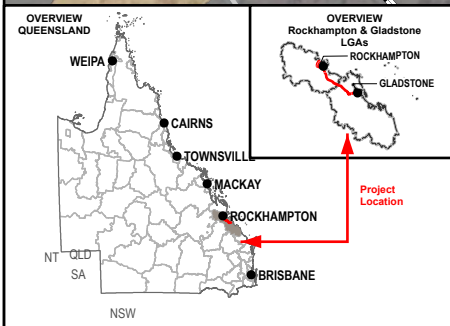
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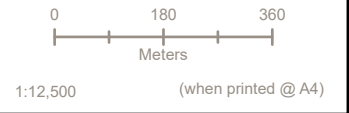
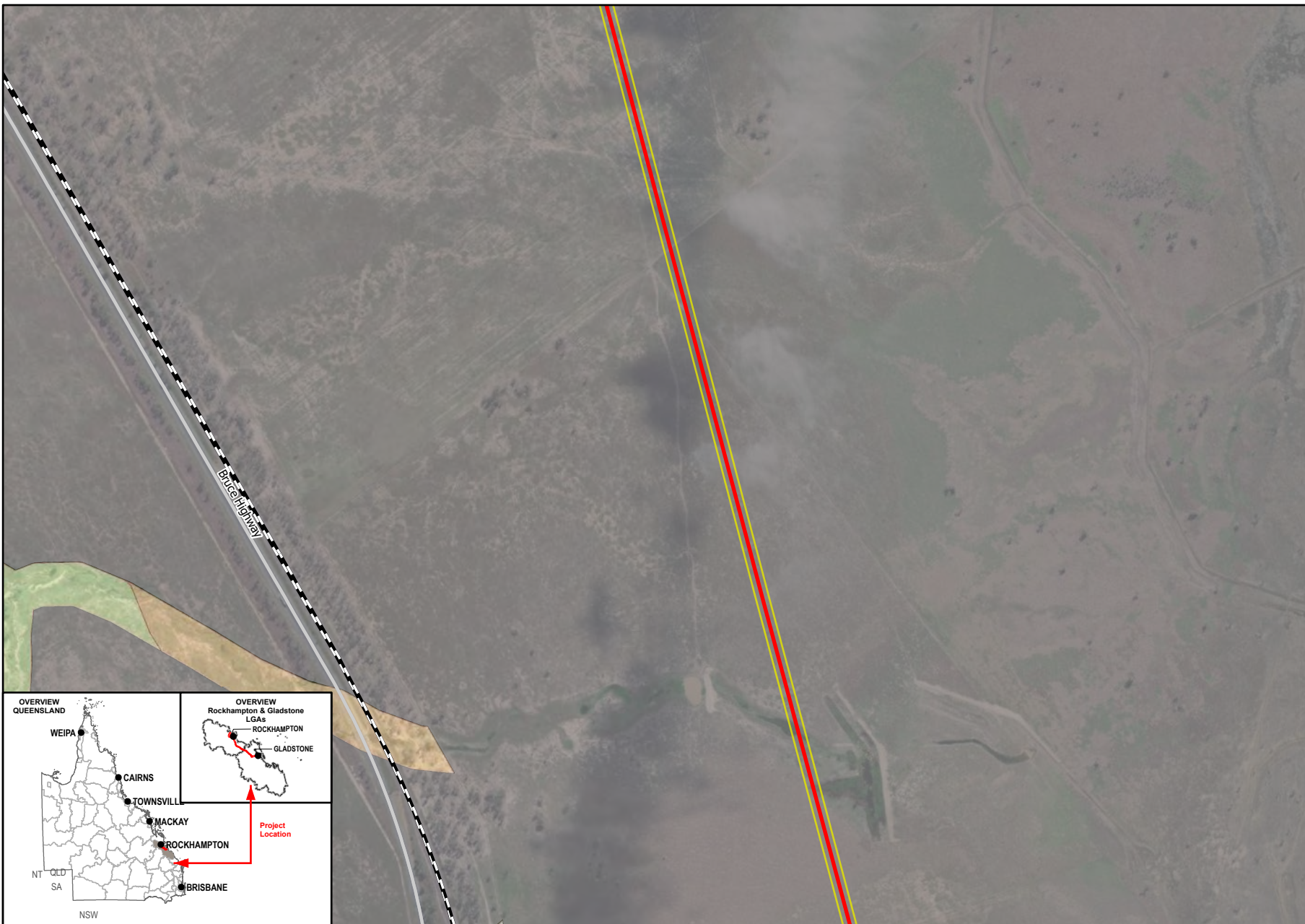
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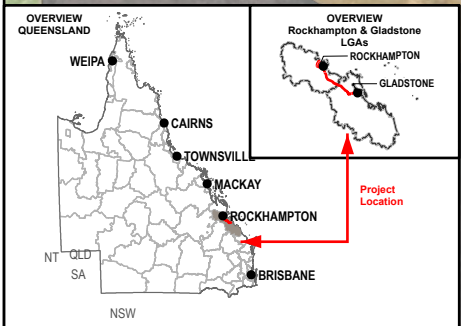


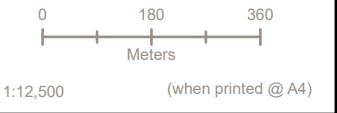
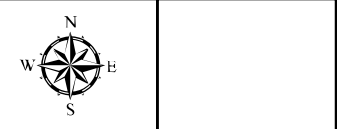
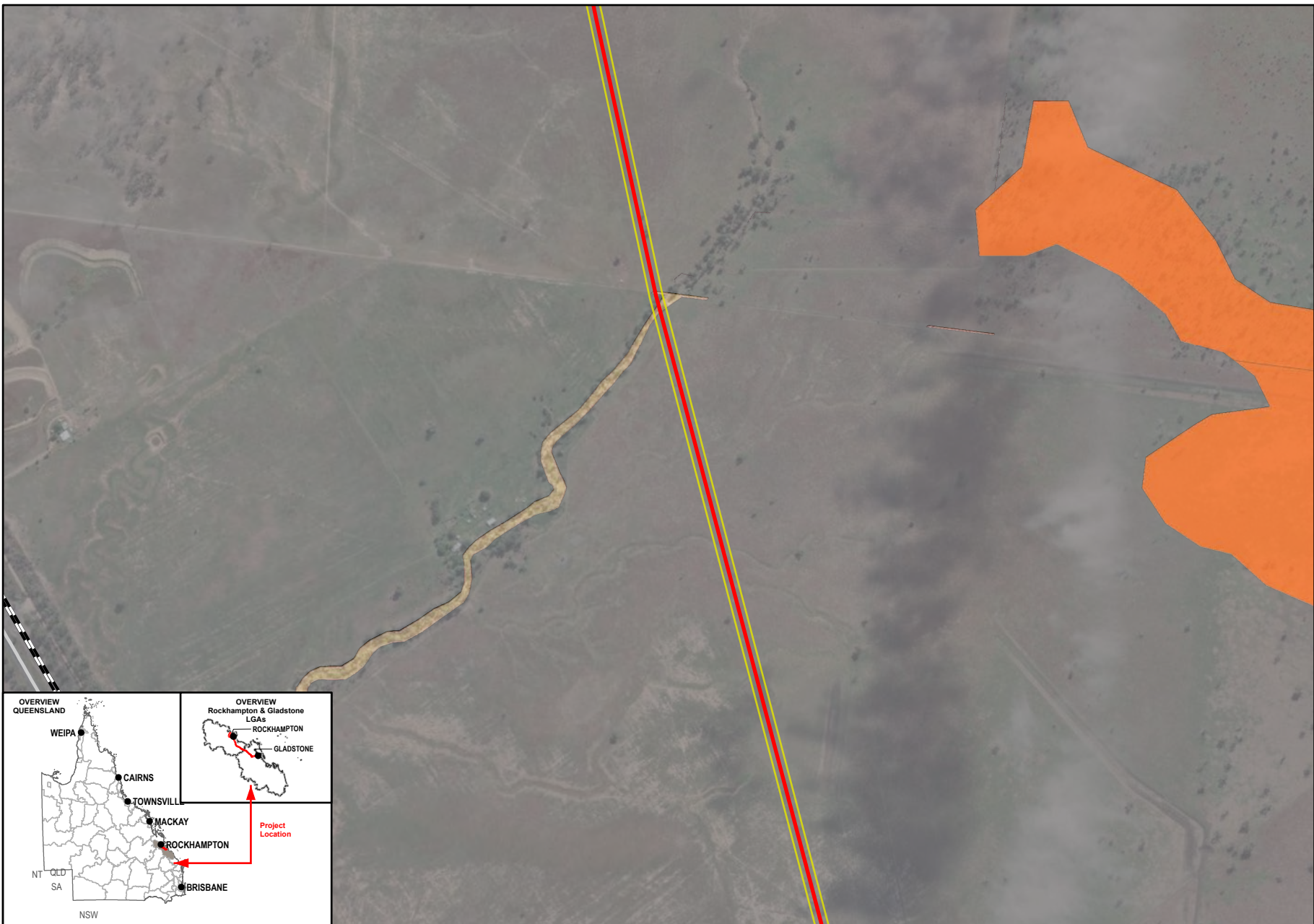
Legend

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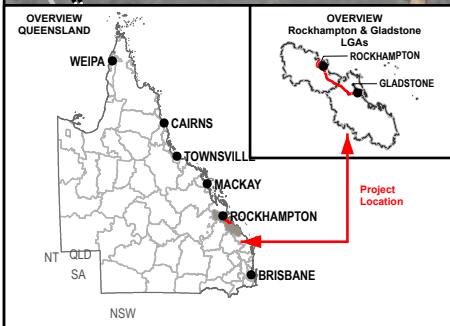


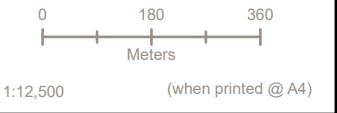
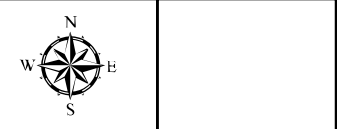


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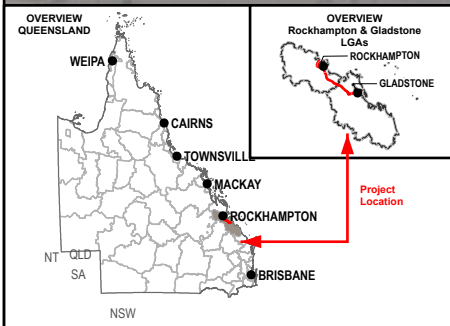


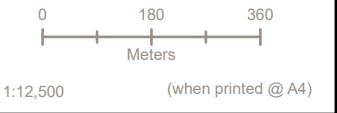
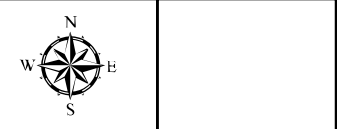


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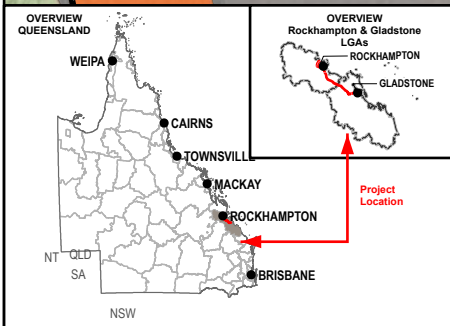


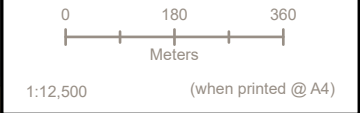


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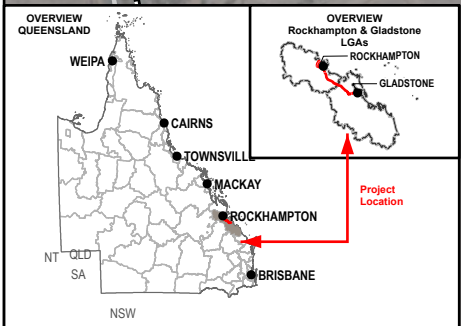


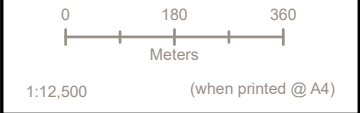
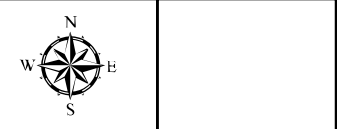
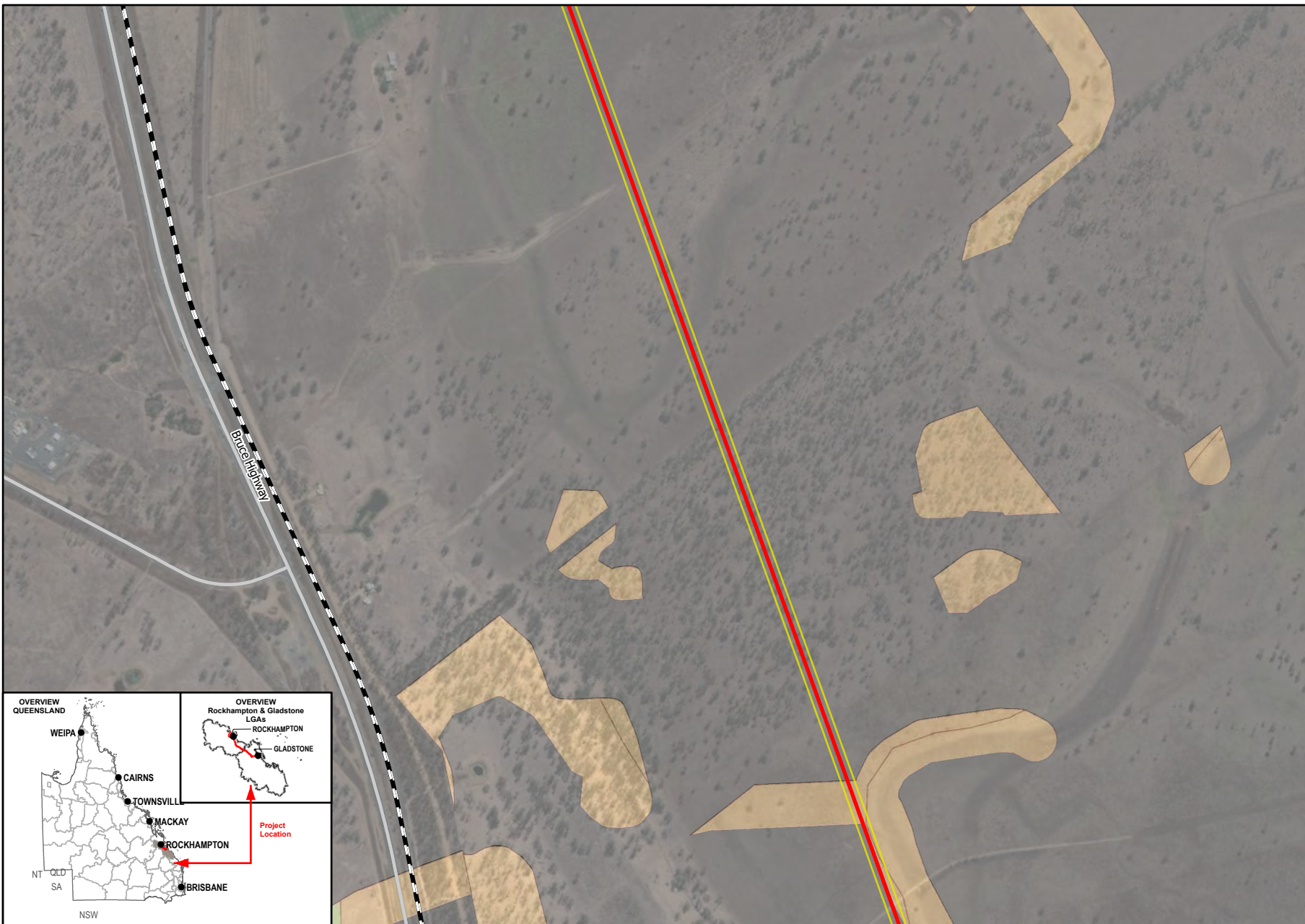
Legend

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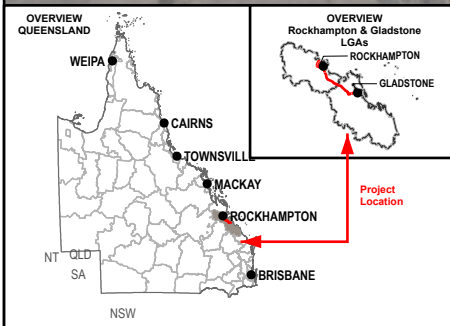


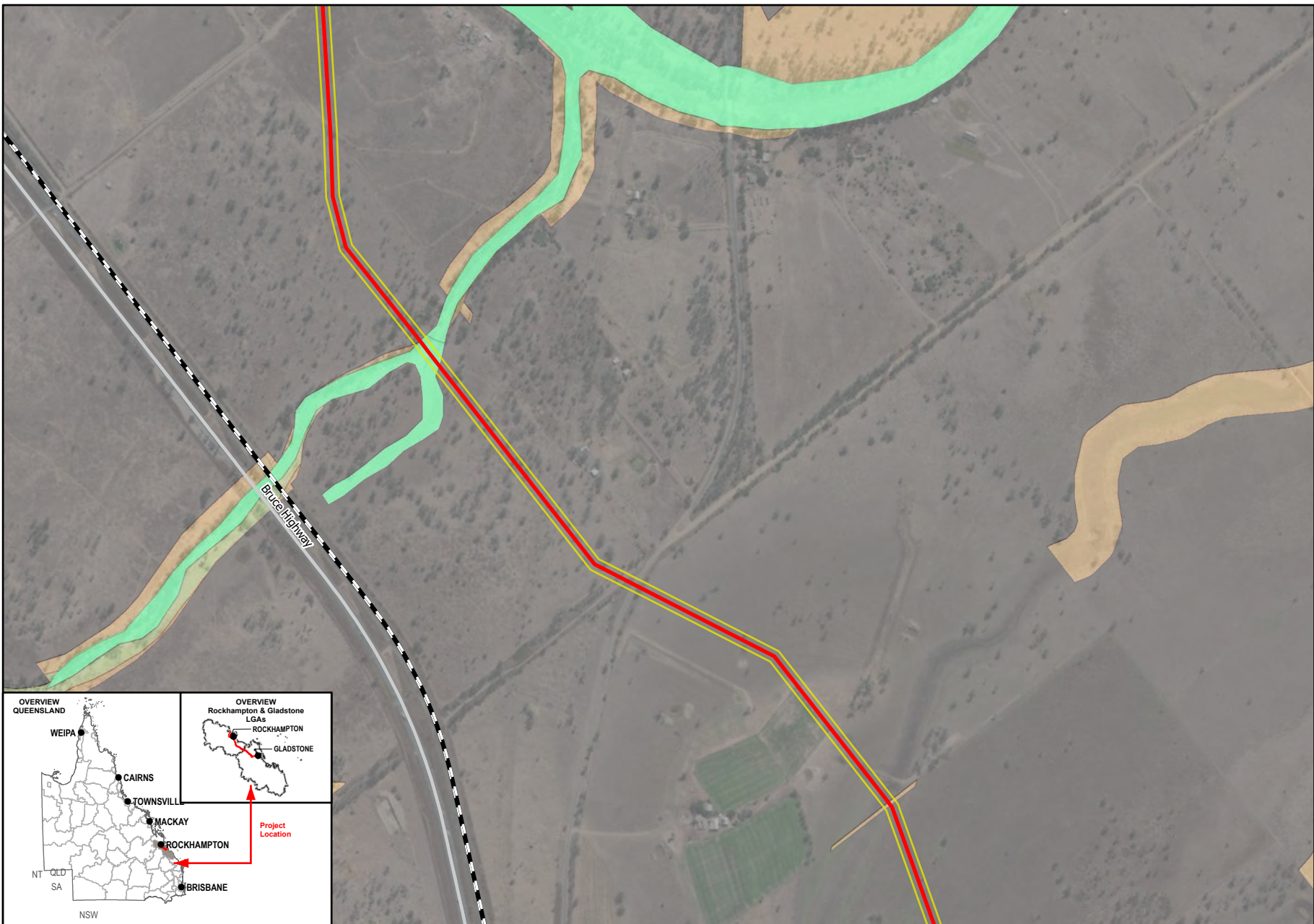


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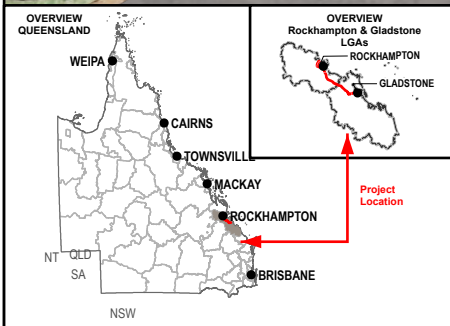
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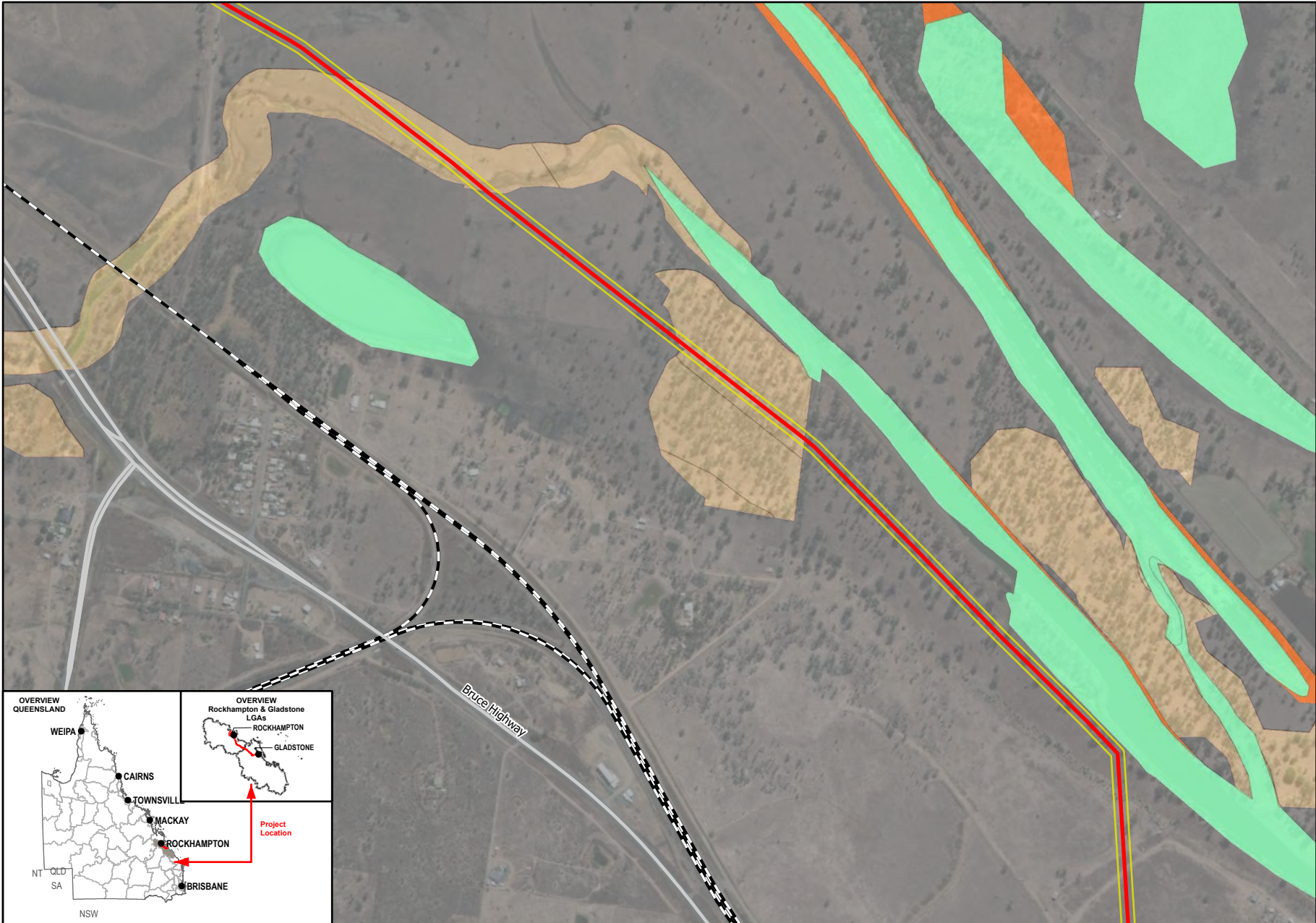
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Queensland
Government



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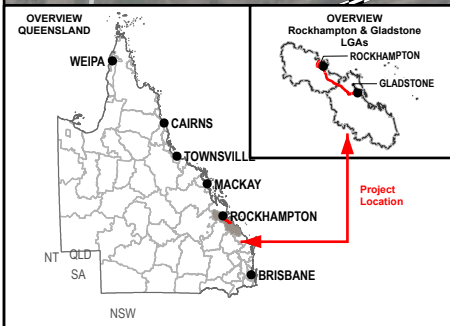
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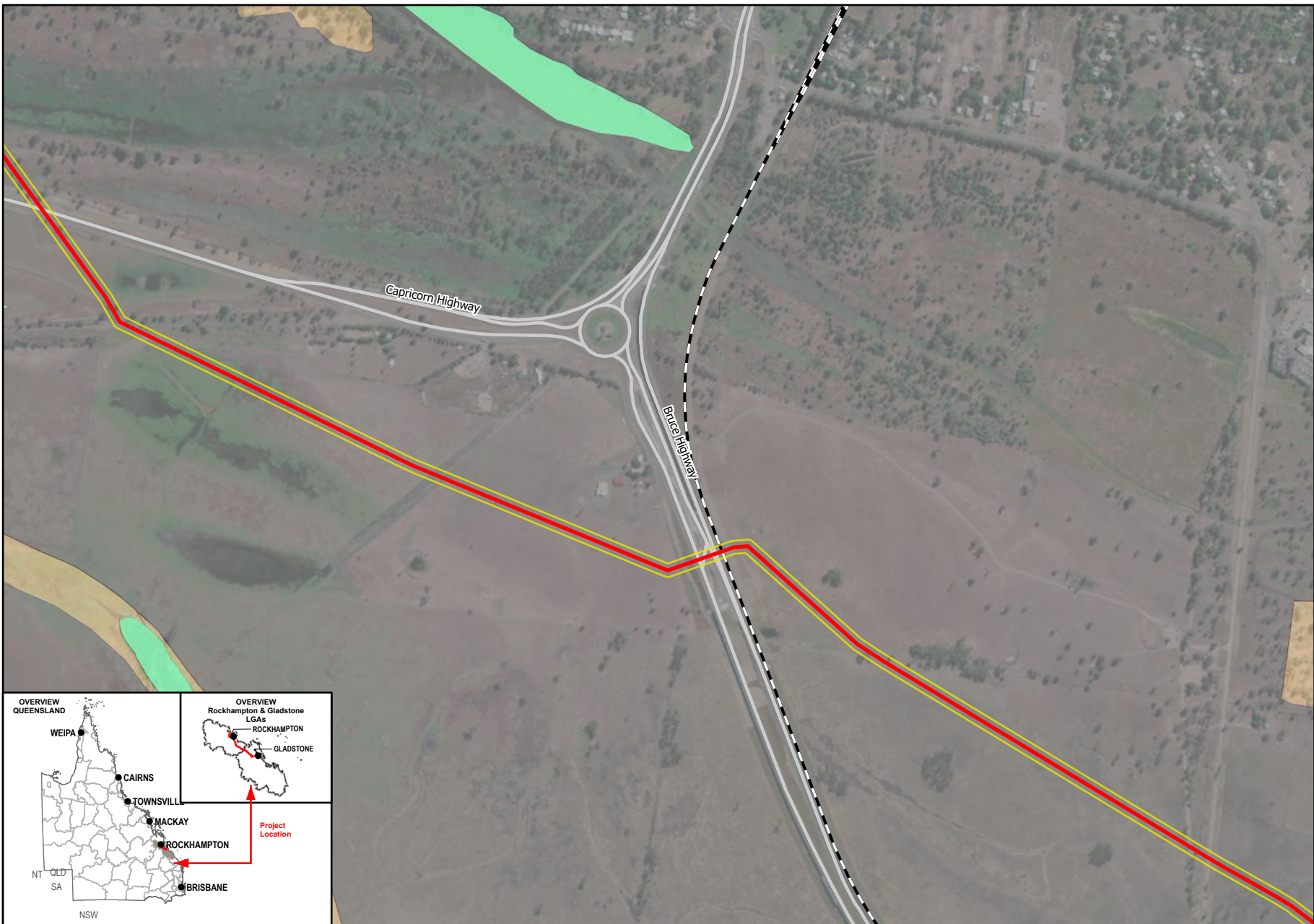
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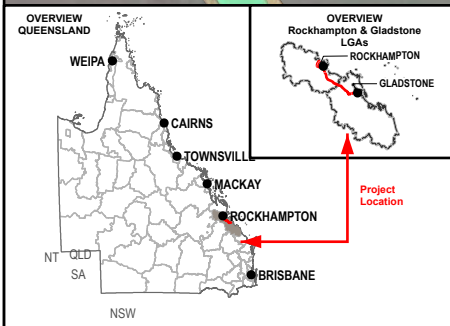
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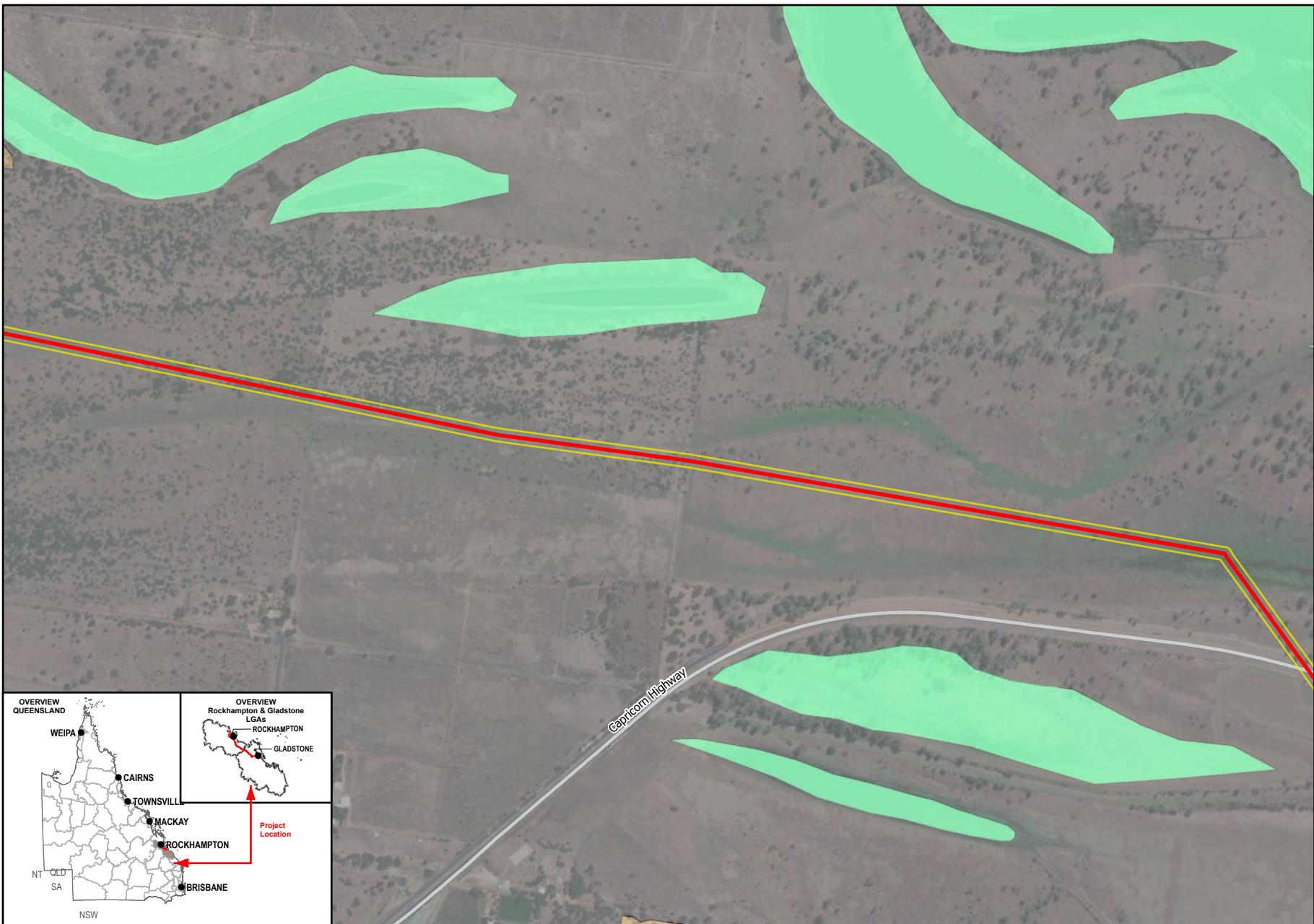
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Meters

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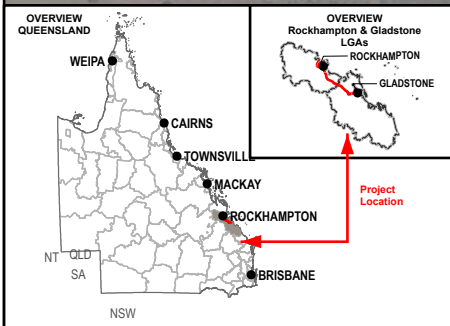
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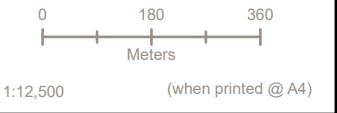
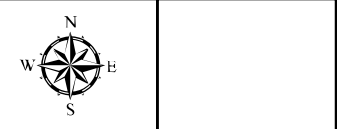
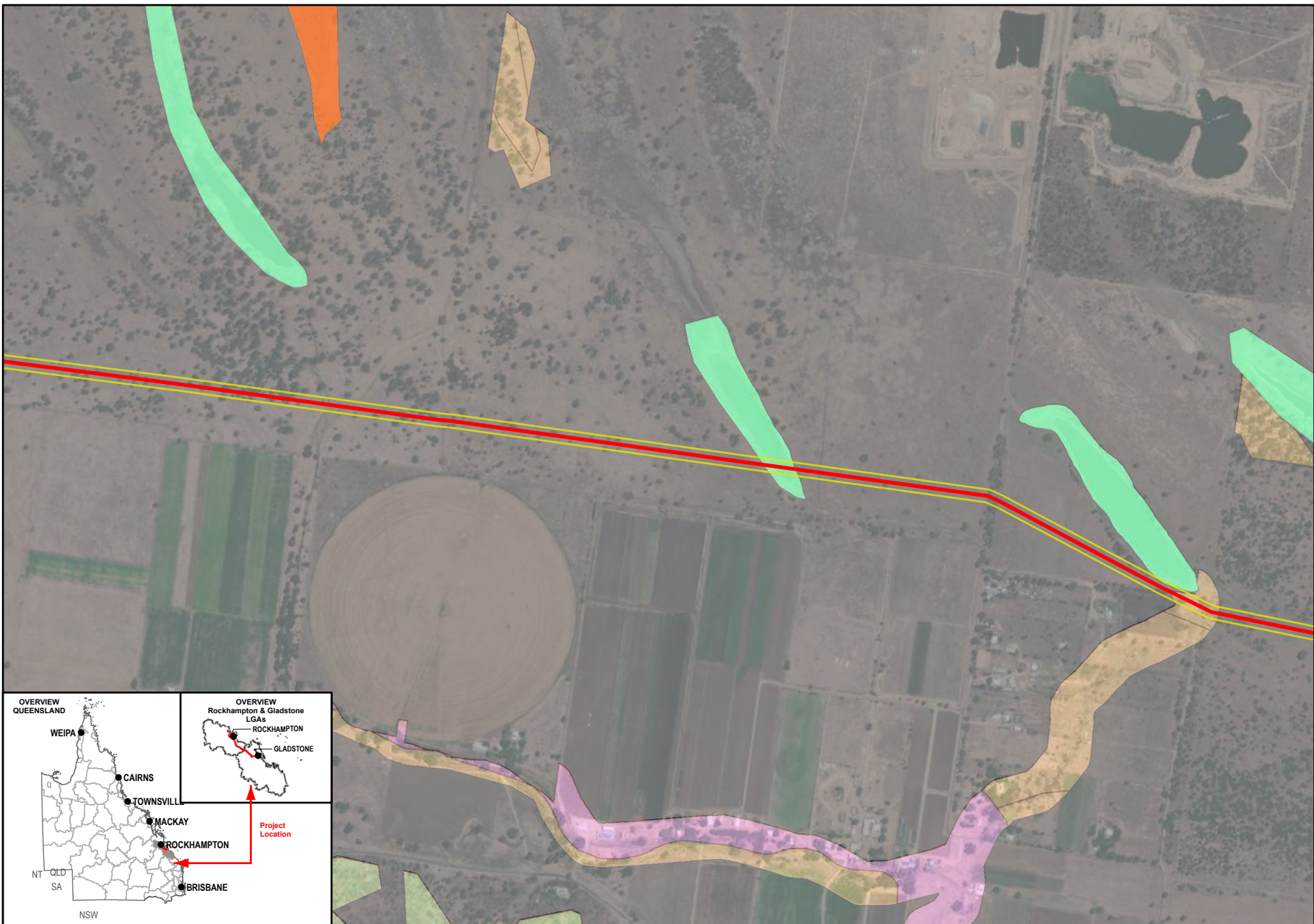
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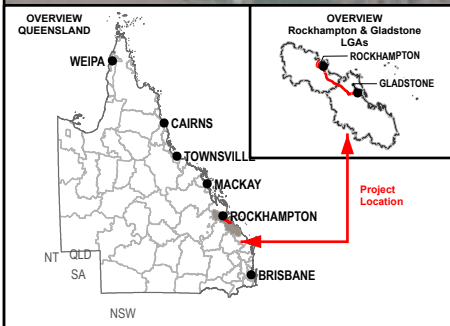
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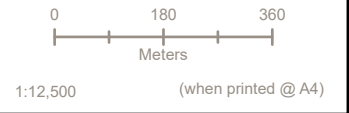
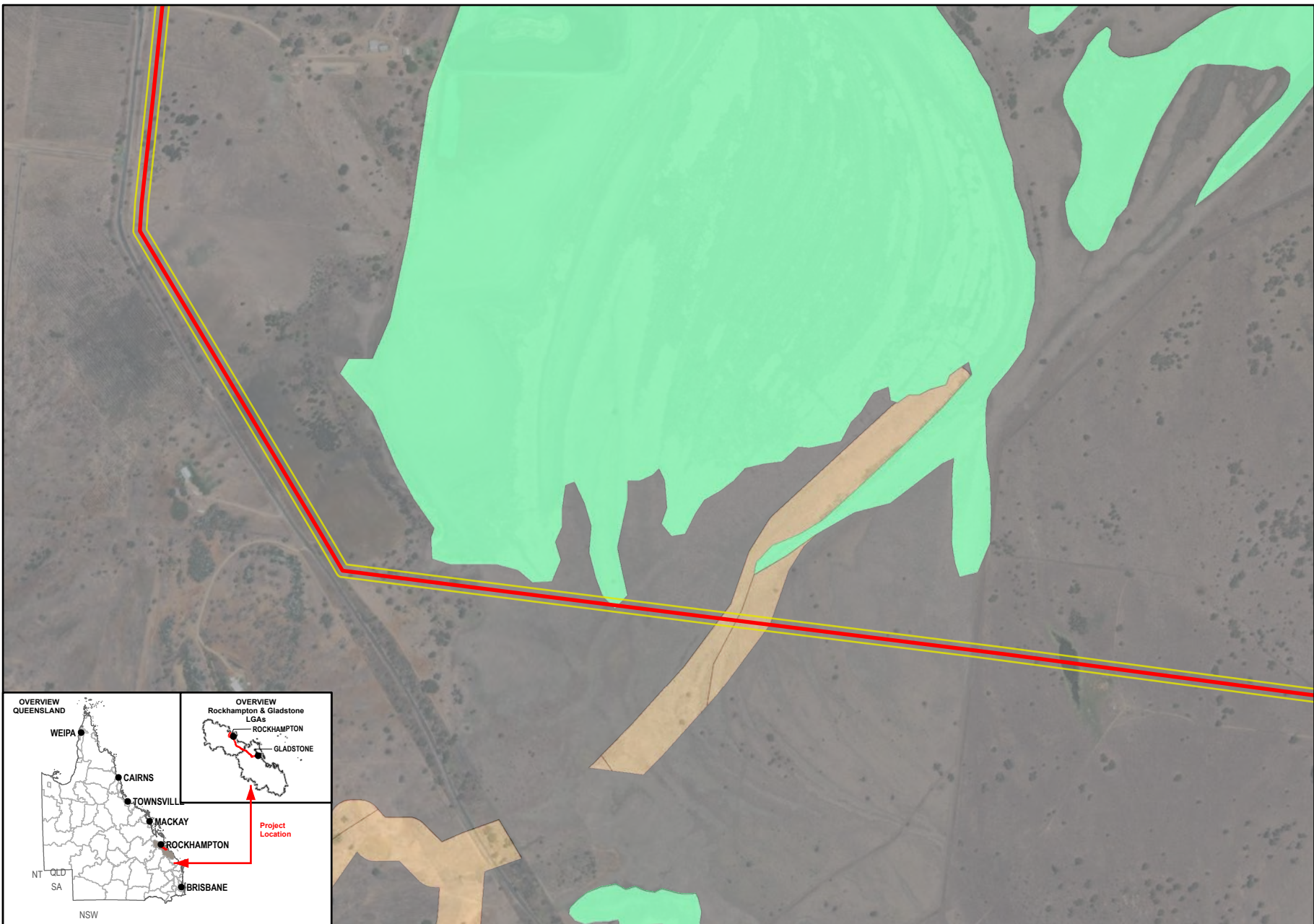


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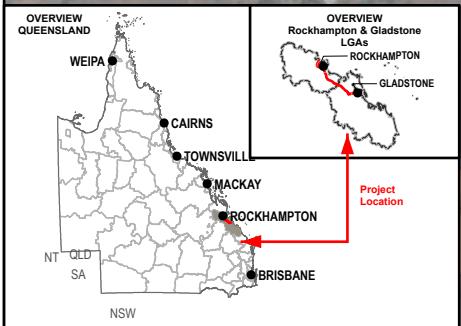


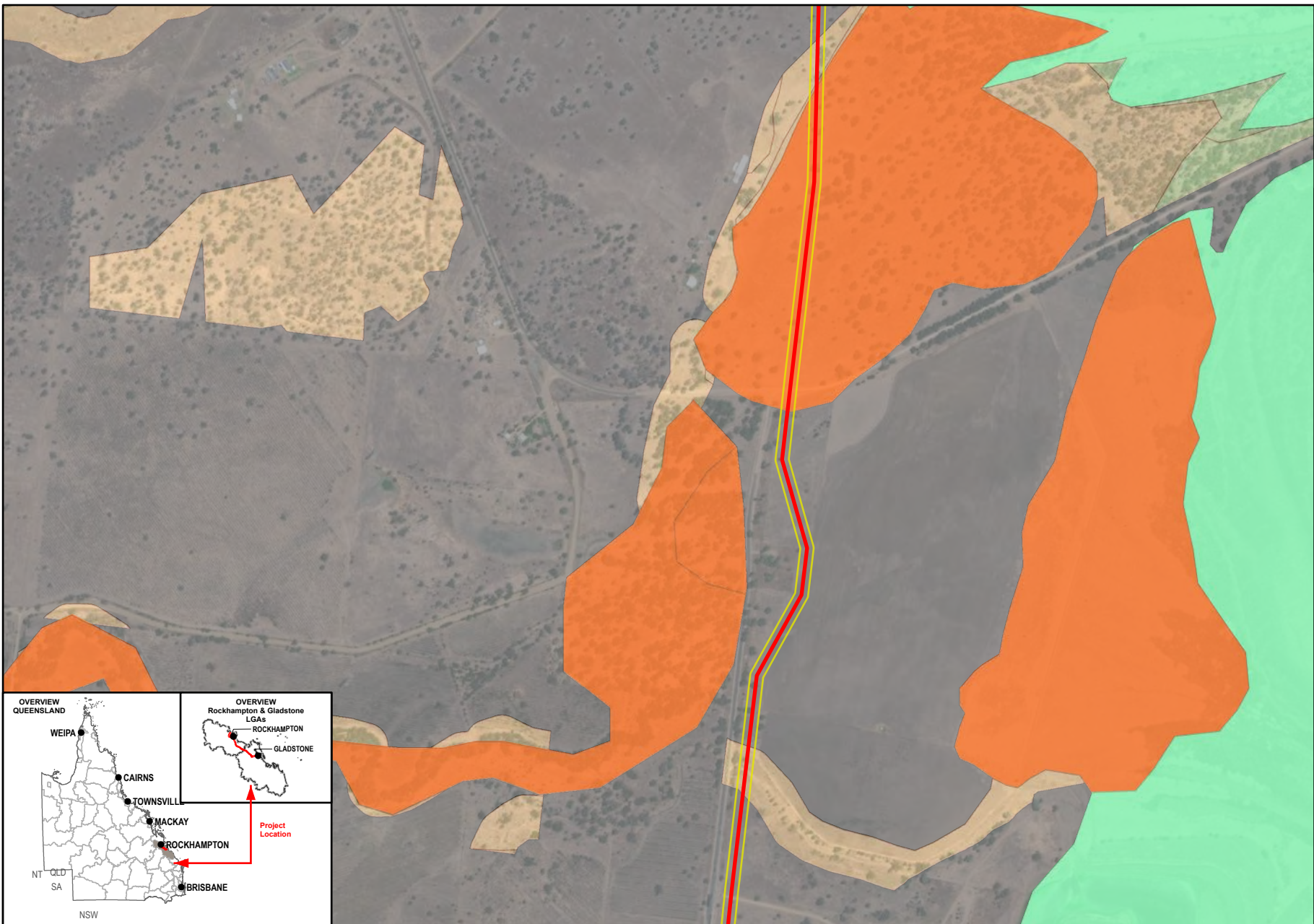
Legend

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Meters

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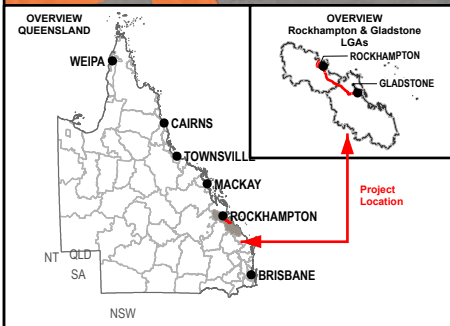
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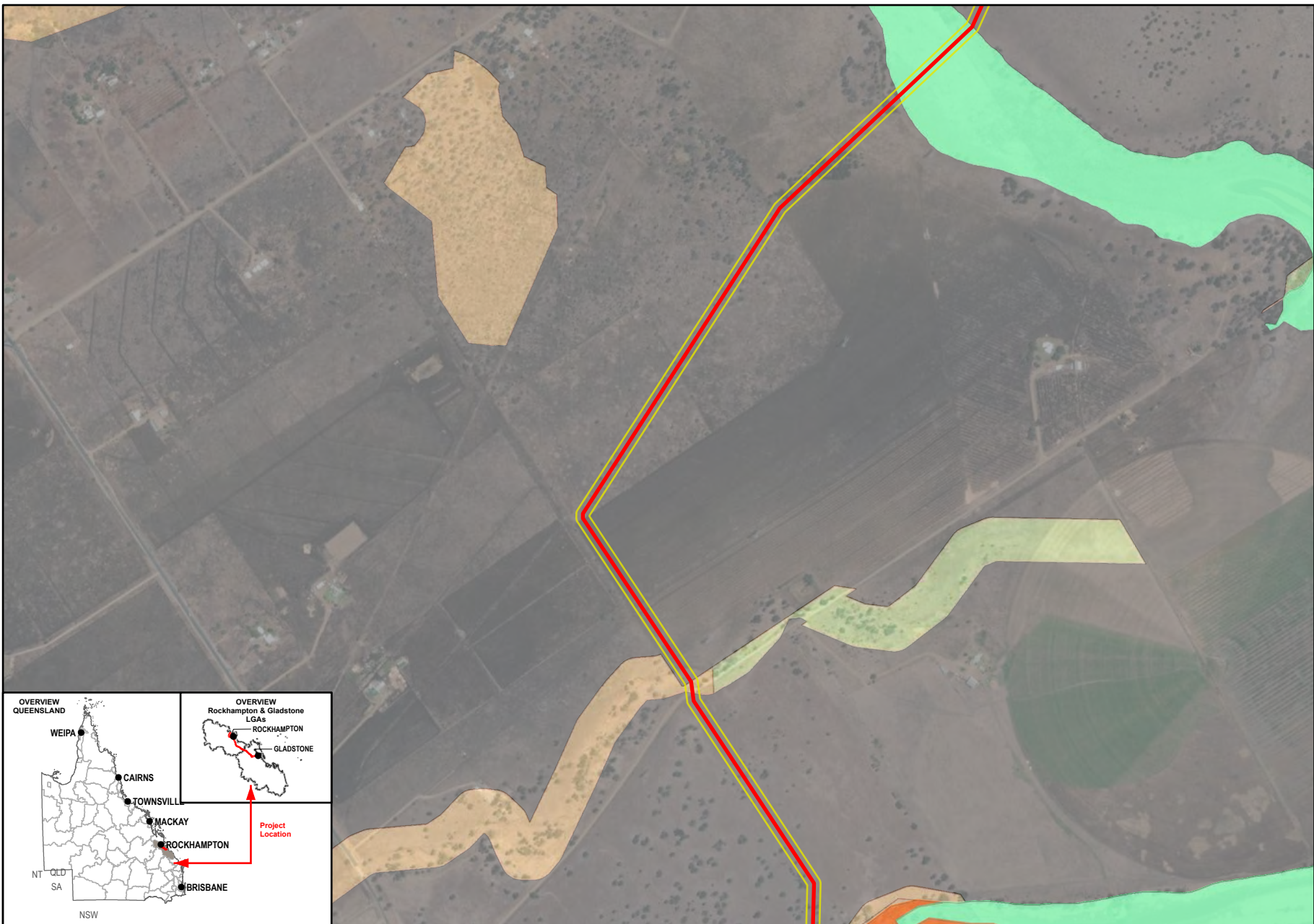
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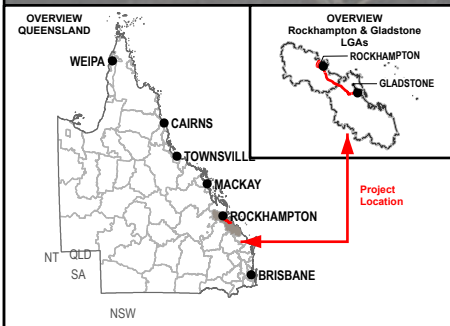
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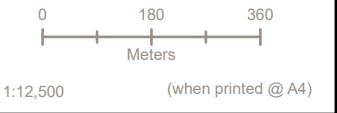
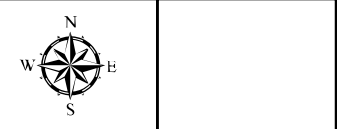
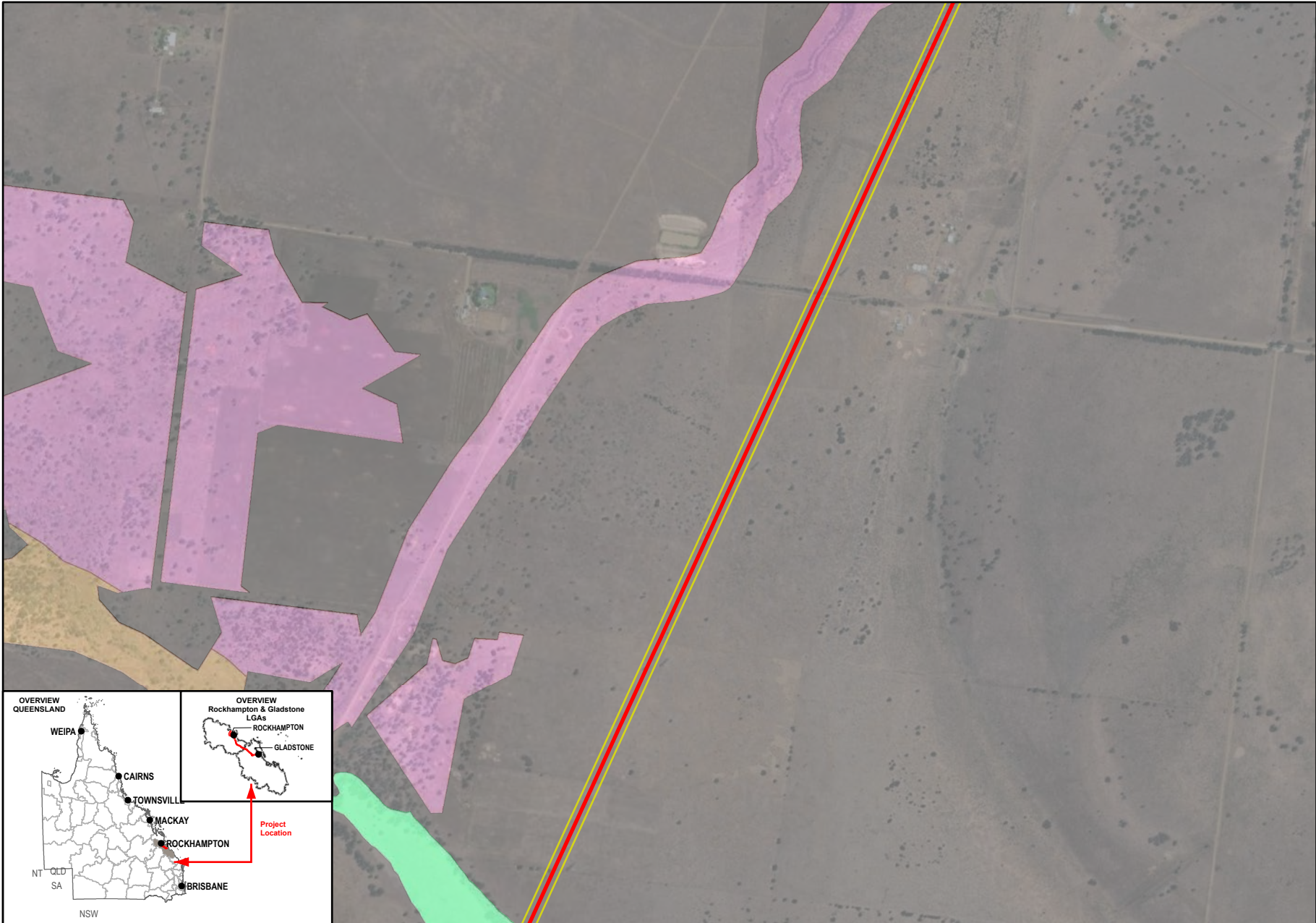
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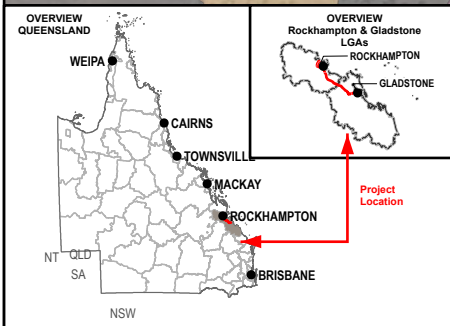


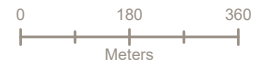
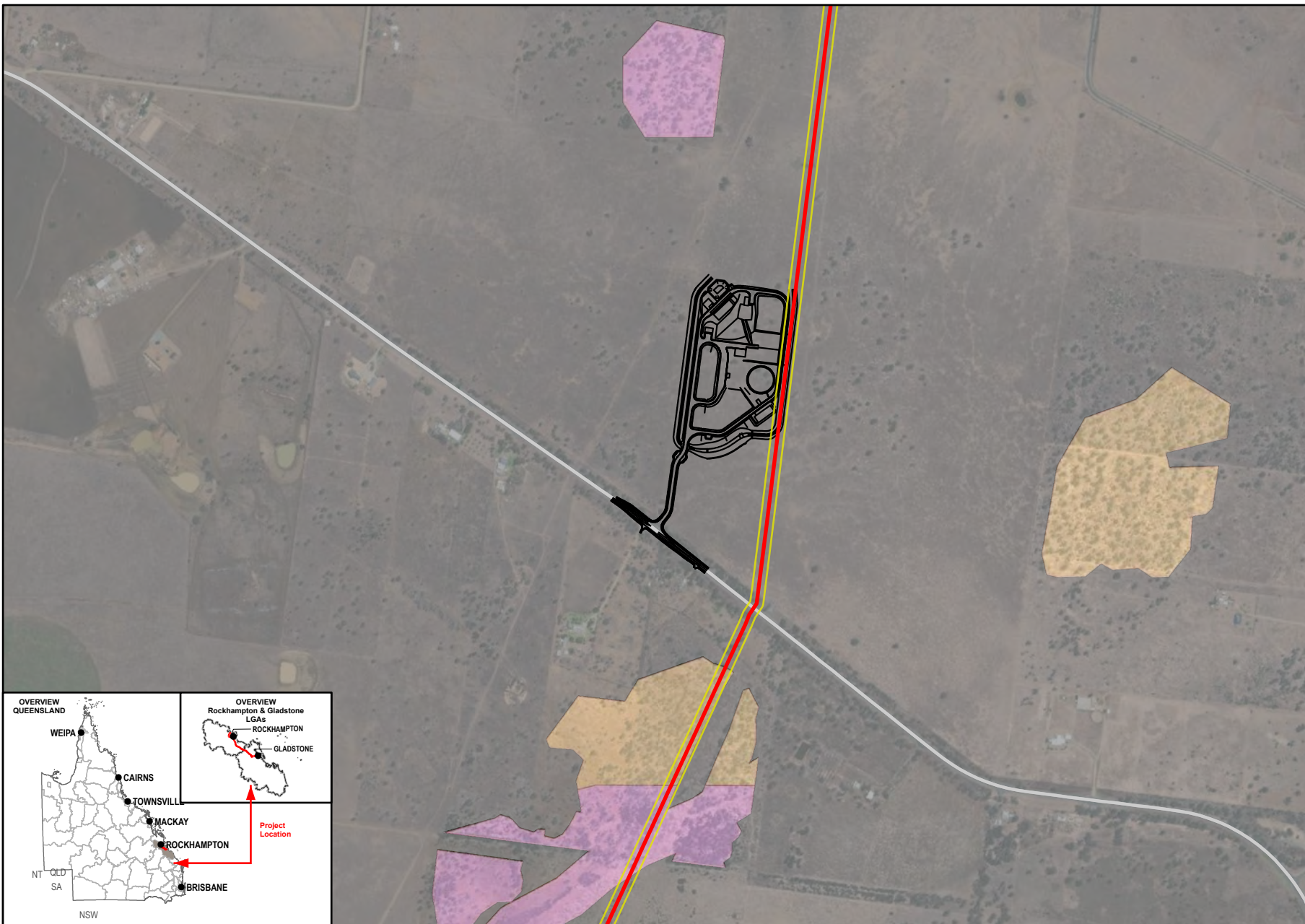
- Legend**
- Pipeline Alignment
 - Study Area
 - Category A or B area containing endangered
 - Category A or B area containing of concern
 - Category A or B area that is least concern
 - Category C or R area containing endangered
 - Category C or R area containing of concern
 - Category C or R area that is of least concern
 - Water
 - Non-remnant

Data Sources:

1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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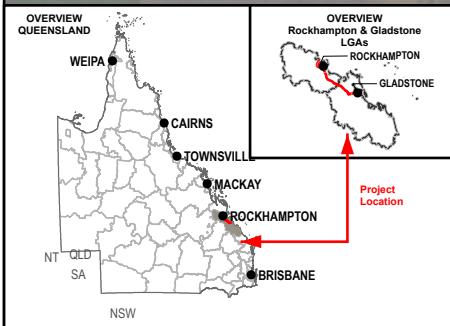
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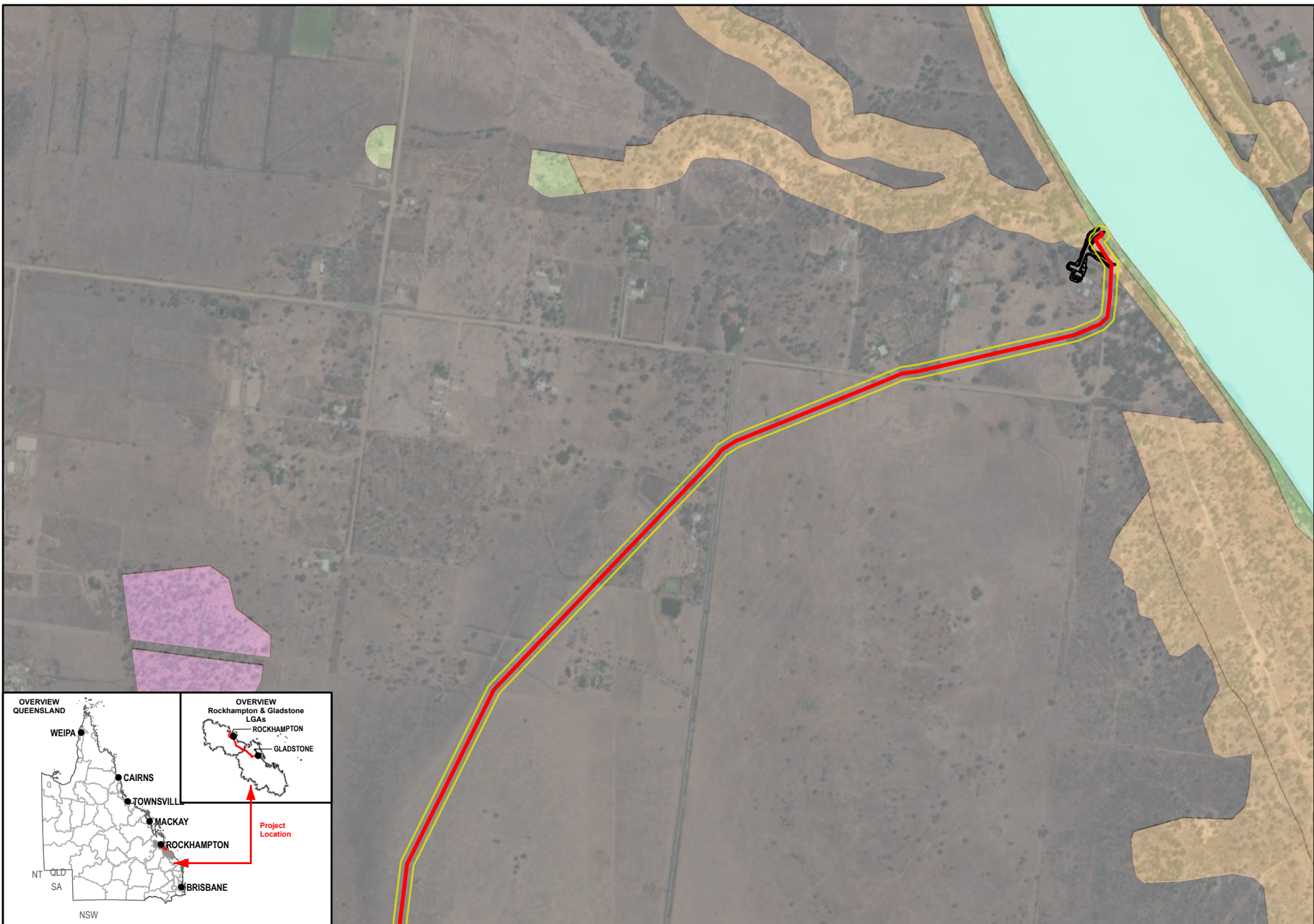
Legend

- Pipeline Alignment
- Study Area
- Main Roads
- Category A or B area containing endangered
- Category A or B area containing of concern
- Category A or B area that is least concern
- Category C or R area containing endangered
- Category C or R area containing of concern
- Category C or R area that is of least concern
- Water
- Non-remnant
- Alton Down WTP, Pump Station and Reservoir Layout

Data Sources:
 1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
 2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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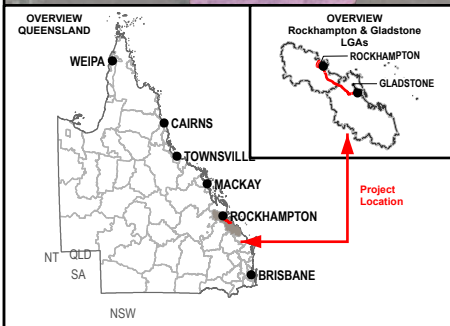
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- Legend**
- Pipeline Alignment
 - Study Area
 - Category A or B area containing endangered
 - Category A or B area containing of concern
 - Category A or B area that is least concern
 - Category C or R area containing endangered
 - Category C or R area containing of concern
 - Category C or R area that is of least concern
 - Water
 - Non-remnant
 - Fitzroy River Intake and Pump Station Layout

Data Sources:

1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Appendix D

Protected plants flora survey report



Red Ash
Consulting



Flora Survey Report
Gladstone to Fitzroy Pipeline
GHD Pty Ltd
July 2022

Certification by a suitably qualified person

I certify that:

- (a) I have adhered to all statutory requirements and flora survey guideline requirements; and
- (b) In the area surveyed I have found plants (as detailed in this report) that are currently listed as extinct, extinct in the wild, critically endangered, endangered, vulnerable or near threatened in the *Nature Conservation (Plants) Regulation 2020*; and
- (c) The flora survey report is an accurate and full account of the flora survey.

Signature:

Date:

17 July 2022

Disclaimer

This report has been prepared on behalf of and for the exclusive use of GHD Pty Ltd (GHD) and the Gladstone Area Water Board (GAWB) and is subject to and issued in connection with the provisions of the agreement between Red Ash Consulting Pty Ltd and GHD (the Client). Red Ash Consulting Pty Ltd accepts no liability or responsibility for or in respect of any use of or reliance upon this report by any third party.

The purpose of this report and the associated services performed by Red Ash Consulting Pty Ltd is to provide a Flora Survey Report in accordance with the scope of services set out in the contract between Red Ash Consulting Pty Ltd and the Client. That scope of services was defined by the requests of the Client, by the time and budgetary constraints imposed by the Client, and by the availability of access to the site.

Red Ash Consulting Pty Ltd derived the data, opinions, conclusions and/or recommendations in this report primarily from visual inspections, examination of records in the public domain, interviews with individuals and previous works undertaken for the Project. The passage of time, manifestation of latent conditions or impacts of future events may require further exploration at the site and subsequent data analysis, and re-evaluation of the findings, observations and conclusions expressed in this report.

In preparing this report, Red Ash Consulting Pty Ltd has relied upon and presumed accurate certain information (or absence thereof) relative to the site provided by government officials and authorities, the Client and other identified herein. Except as otherwise stated in the report, Red Ash Consulting Pty Ltd has not attempted to verify the accuracy or completeness of any such information. Red Ash Consulting Pty Ltd assumes that all information obtained by Red Ash Consulting Pty Ltd from sources outside Red Ash Consulting Pty Ltd was correct at the time the information was issued. Red Ash Consulting Pty Ltd does not accept liability for errors or omissions in the report which resulted from errors or omissions in that information.

Document Status

Revision Number	Date	Author	GHD Technical review
A	17 June 2022	Peter Moonie	Shelley Chadwick
0	21 July 2022	Peter Moonie	Shelley Chadwick

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1. Introduction

1.1 Background

The Gladstone Area Water Board (GAWB) has been appointed as the Delivery Management Proponent for pre-construction activities associated with the proposed Fitzroy to Gladstone Pipeline (FGP) (the project). The 116 km long pipeline extends from the Fitzroy River at Alton Downs, Rockhampton to GAWB's existing water infrastructure near Yarwun. The proposed construction corridor for the pipeline has a nominal width of 30 m. The project area is divided into the following three sections:

- Northern Section – approximately 15 km of pipeline, the intake facility of the southern bank of the Lower Fitzroy River and the pump station, and the Alton Downs Water Treatment Plant
- SGIC SDA – proposed infrastructure within the Stanwell to Gladstone Infrastructure Corridor State Development Area (SGIC SDA) comprising approximately 80 km of pipeline and the Raglan Pump Station and Reservoir
- GSDA – proposed infrastructure within the Gladstone State Development Area (GSDA) comprising approximately 21 km of pipeline and the Aldoga Reservoirs.

The project intersects several high risk flora trigger areas under the Queensland *Nature Conservation Act 1992* (NC Act). A WildNet record also exists for the near-threatened plant, *Macropteranthes leiocaulis*, within 100 m of the pipeline alignment within the SGIC SDA.

As per Section 141 of the *Nature Conservation (Plants) Regulation 2020* (NC (Plants) Reg), a flora survey in accordance with the *Flora Survey Guidelines – Protected Plants (2020)* was undertaken to determine if any extinct, extinct in the wild, critically endangered, vulnerable or near threatened flora species listed under the NC Act (herein referred to as EVNT plant species) occur within any of the associated clearing impact areas along the pipeline alignment. A targeted search for EVNT plant species was also undertaken within 100 m of the nearby *Macropteranthes leiocaulis* record adjacent to the SGIC SDA pipeline alignment.

As the proposed works do not meet the relevant exemption requirements under the NC(Plants) Reg, GHD Pty Ltd was engaged to complete a flora survey of the clearing impact area and provide advice on permitting and/or notification requirements under the protected plants framework.

1.2 Purpose

This report presents the findings of the flora survey undertaken from 21 - 24 February (Phase 1) and 5 April 2022 (Phase 2). It demonstrates compliance with the principles of the *Flora Survey Guidelines – Protected Plants (August 2020)* (referred to herein as the flora survey guidelines) and provides information necessary to support permitting or notification requirements under the protected plants legislative framework.

1.3 Key definitions

The following definitions are relevant to this report:

- Clearing footprint – the area to be cleared for construction of the pipeline (development footprint).
- Clearing impact area - the area where clearing of native vegetation will occur within the high risk trigger area, together with a surrounding 100 m buffer area to the extent that it occurs within the high risk trigger area.
- EVNT - extinct, extinct in the wild, critically endangered, vulnerable or near threatened flora species listed under the NC Act

1.4 Study area

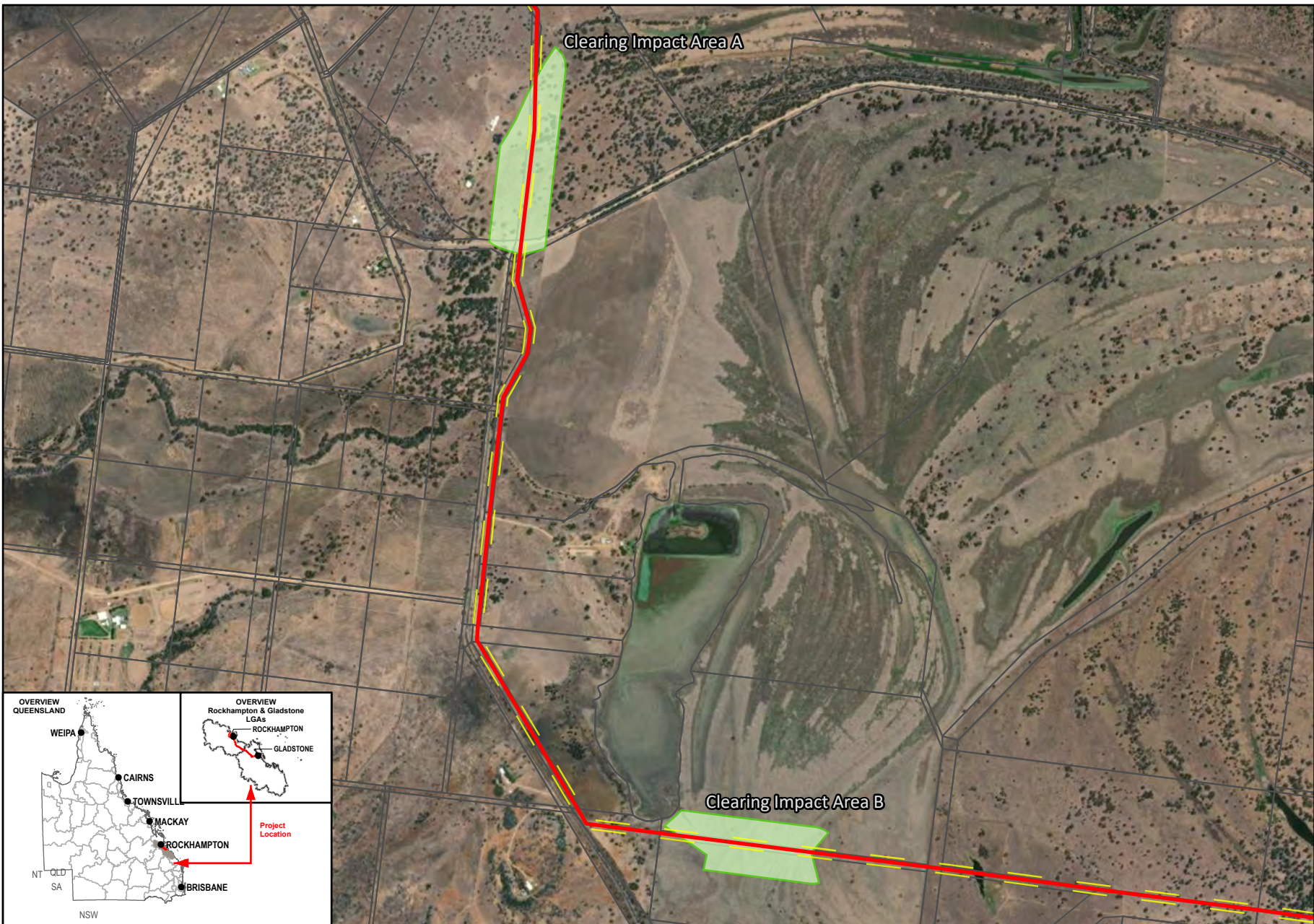
The study area encompassed six disjunct clearing impact areas (Table 1). The clearing impact areas, together with property boundaries and locations of the high risk flora trigger areas are shown in Figure 1-1 to Figure 1-3.

Table 1. Six Clearing Impact Areas within the pipeline alignments

Clearing Impact Area	Pipeline alignment
A and B	Northern Section
C and D	SGIC SDA
E and F	GSDA

1.5 Proposed Clearing

Clearing for the project is anticipated to commence in 2023.



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Legend

- Study Area
- Pipeline Alignment
- Property Boundary
- Clearing Impact Areas

OVERVIEW QUEENSLAND

OVERVIEW Rockhampton & Gladstone LGAs

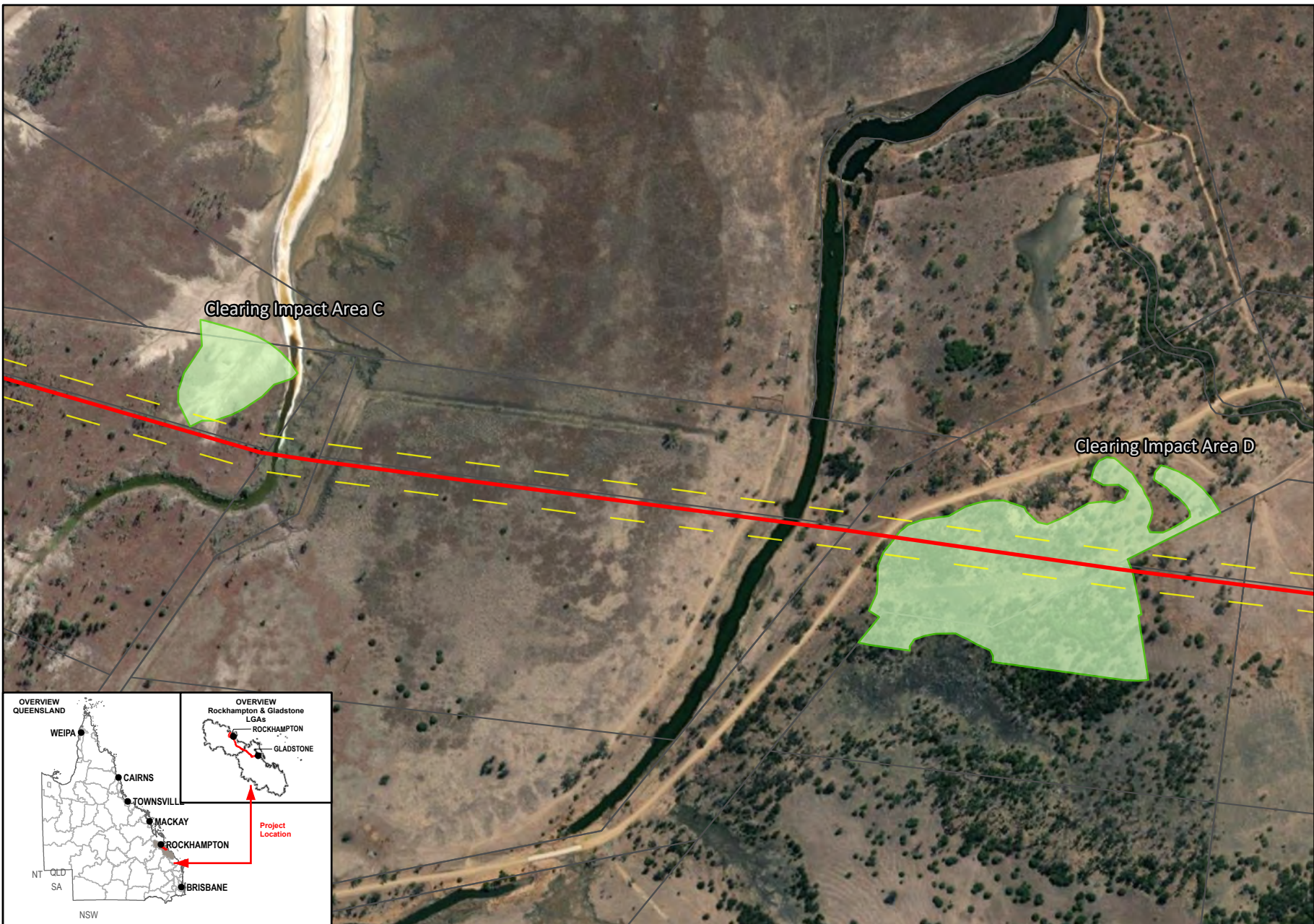
Project Location

Data Sources:

1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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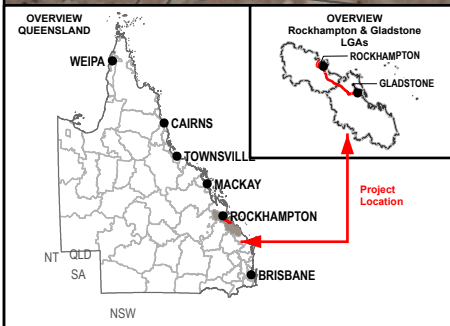


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- Legend**
- Study Area
 - Pipeline Alignment
 - Property Boundary
 - Clearing Impact Areas

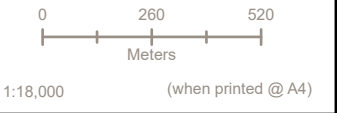
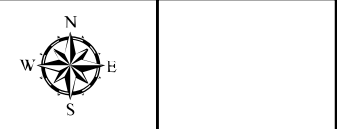
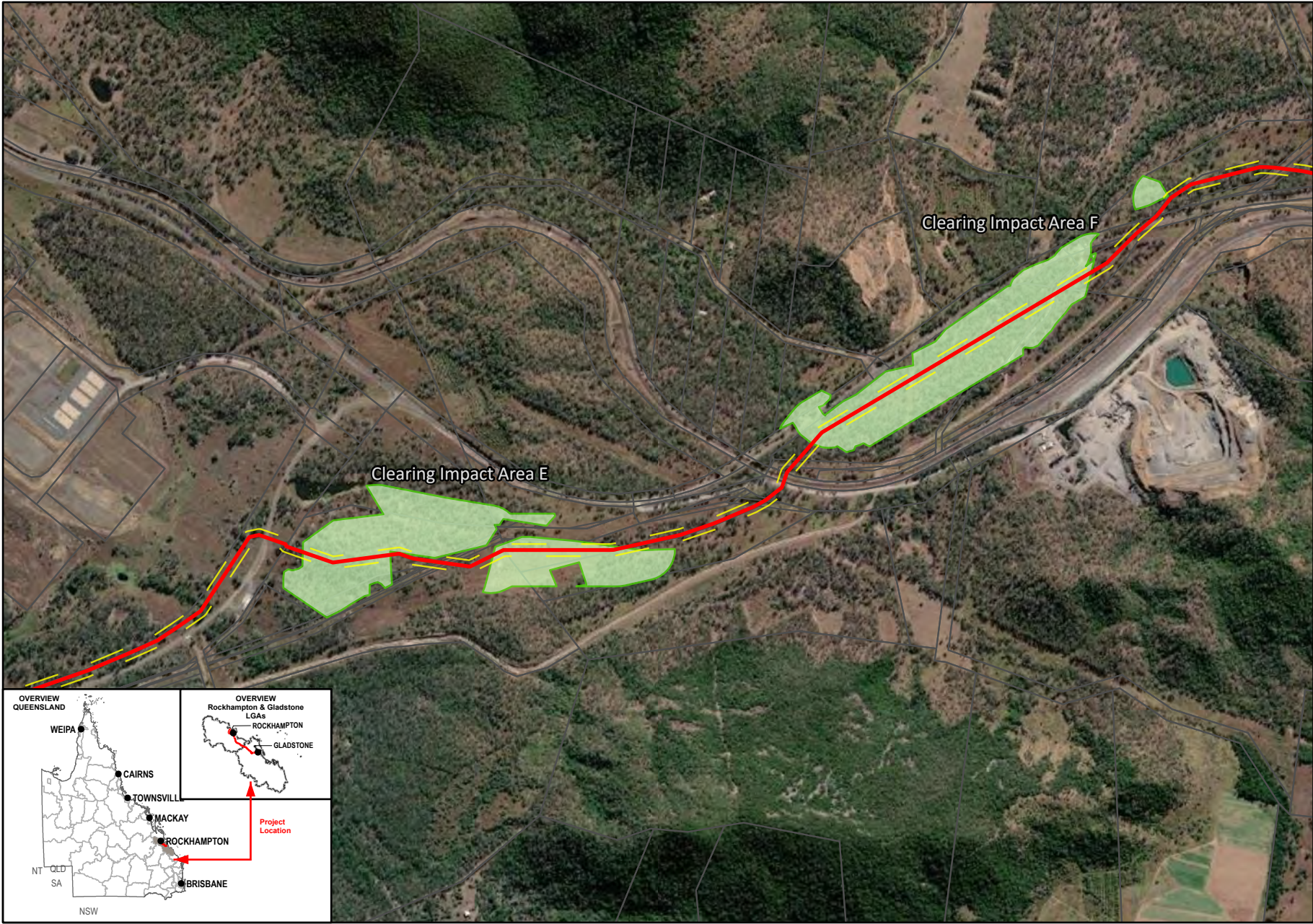


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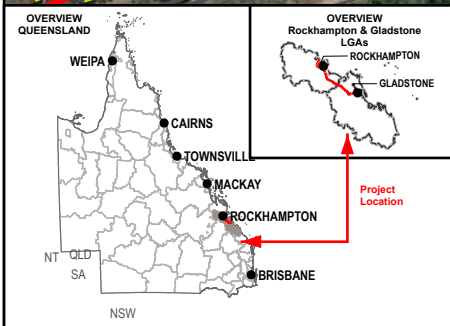
1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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- Legend**
- Study Area
 - Pipeline Alignment
 - Property Boundary
 - Clearing Impact Areas



Data Sources:

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2. Methods

2.1 Desktop Assessment

Table 2 summarises the desktop searches that were undertaken for the survey. Where applicable, copies of these searches are provided in Appendix A. Searches for the Phase 1 and Phase 2 surveys were undertaken on 18 February 2022 and 11 March respectively.

Table 2. Desktop searches undertaken for the study area.

Search Tool	Administrative body	Search details
Protected Plants Flora Survey Trigger Area Map	Queensland Department of Environment and Science (DES)	The flora survey trigger area spatial layer was examined along the length of the pipeline alignment.
Protected Matters Search Tool	Commonwealth Department of Climate Change, Energy, the Environment and Water (DoCCEEW)	A search was undertaken along the length of the pipeline alignment, with a 10 km buffer applied.
Species Profile Search	DES	Search of closest spatial records of EVNT plants identified in desktop assessment.
Wildlife Online and Biomaps	DES	Wildlife Online - Point searches were undertaken at five locations along the pipeline alignment, with a 10 km buffer applied. Biomaps - spatial search of study area.
Vegetation Management Map	Queensland Department of Resources (DoR)	The vegetation management regional ecosystem map (version 12) spatial layer was examined along the length of the pipeline alignments.
Atlas of Living Australia (ALA)	Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Spatial search of study area.

The geographical information system (GIS) program QGIS was used to view and query a range of spatial resources and create the relevant maps within this report. Spatial data layers in GDA2020, were obtained from the Queensland Spatial Catalogue (State of Queensland, 2022).

2.2 Field Survey

A targeted search for EVNT plant species within the clearing impact areas was undertaken from 21 - 24 February and 5 April 2022 by consulting ecologists, Peter Moonie (Red Ash Consulting) and Shannon Blatchford (GHD Pty Ltd). Where an EVNT plant species was detected beyond the clearing impact area, a 100 m buffer around the plant was searched for additional individuals which may be present.

Table 3 provides a summary of how the field survey addresses the requirements of the flora survey guidelines.

Within this report, an asterisk (*) has been used to identify a species as introduced.

Table 3. Comparison of flora survey with requirements of the flora survey guidelines

Key requirements of the <i>Flora Survey Guidelines – Protected Plants</i>	Limitations of this assessment	Justification
<p>Suitably qualified person</p> <p>Flora surveys to be co-ordinated and led by a suitably qualified person.</p>	No limitations or deviations were identified.	The flora survey was co-ordinated and led by a suitably qualified person who has appropriate qualifications and training, together with a minimum of 25 years of experience in undertaking EVNT flora surveys. Refer to Appendix B for further details.
<p>Survey timing</p> <p>The survey must be conducted at the most appropriate time of year to maximise the chance of detecting the EVNT species.</p>	No limitations were identified.	The seasonality of the flora survey was considered suitable for the detection of all EVNT plant species considered to have a moderate or high potential to occur in the clearing impact area. All such species can be identified from vegetative material throughout the year. Further comments regarding the potential for species to occur within the area surveyed are included in Appendix C.
<p>Study area extent</p> <p>The flora survey needs to assess the extent of the clearing impact area within the mapped high-risk area.</p>	No limitations were identified.	The survey encompassed the entire clearing footprint, clearing impact area and a 100 m buffer around known records. A spatial representation of survey effort expended during the on-ground survey (as recorded by the tracking function of a Garmin GPS) is provided in Figure 2-1 to Figure 2-3.
<p>Survey method</p> <p>The flora survey should adopt one of the prescribed survey methods unless an alternative is approved.</p>	No alternative survey methods were adopted.	Both the timed meander and systematic transect search methods (described in the flora survey guidelines) were utilised during the survey. Both methods were considered suitable for the detection of the EVNT plant species identified during the desktop assessment. The timed meander method was performed in farm paddocks where plant diversity was low and access, particularly through tall dense exotic grasses, was problematic. Dense tall grasses present may have concealed low growing EVNT plants; however, these areas tend to be substantially disturbed and are far less likely to contain EVNT species.
<p>Population survey</p> <p>If an EVNT plant species is recorded during the survey, a more comprehensive survey is required in order to collect data concerning the EVNT population and its habitat.</p>	Not applicable	Population surveys were not undertaken as no EVNT species were recorded during the survey.
<p>Plant identification</p> <p>Where a possible EVNT plant remains unidentified, the specimen must be lodged with the Queensland Herbarium for formal identification.</p>	No limitations were identified.	Most plant species encountered were identified in the field. Where this was not possible, specimen material was collected and later identified with the assistance of diagnostic keys and references. A specimen of a suspected <i>Macropteranthes fitzalanii</i> individual was also sent to the QLD herbarium for confirmation (ref: PT 263/22).

Key requirements of the <i>Flora Survey Guidelines – Protected Plants</i>	Limitations of this assessment	Justification
WildNet reporting If any EVNT plants are identified, a WildNet data entry form must be completed in accordance with the WildNet Data Entry Form Guidelines.	Not applicable	A WildNet data form was not completed for this project as specimens lodged with the Herbarium are incorporated into the WildNet database.

3. Desktop Assessment Results

3.1 EVNT plant species

The Wildlife Online search indicates that 11 EVNT plant species have been previously recorded within 10 km of the study area. Details of the closest record of each species (post 1980), and their respective status under the NC (Plants) Reg is provided in Table 4.

A likelihood of occurrence assessment for EVNT plants previously recorded or having the potential to occur within the clearing impact areas is provided in Appendix C. Of the species assessed, *Cycas megacarpa* and *Samadera bidwillii* were considered to have a high potential to occur in clearing impact areas D and E. *Cycas ophiolitica* was considered to have a moderate potential to occur in clearing impact areas A and B. All other species were considered to have low potential to occur due to a lack of suitable habitat within any of the clearing impact areas and a lack of historical records within the desktop search extent.

Table 4. EVNT plant species closest occurrence records

Scientific name	NC (Plants) Reg Status	Details of closest record (ALA (2022))
<i>Atalaya collina</i>	Endangered	Year collected - 1983 Catalogue number: BRI AQ0398489 Location: West of Spring Valley and Boyle's Roads, South-west of Mt Sugarloaf (2.7 km south of Clearing Impact Area E, Figure 1-3) Habitat: No detail provided
<i>Capparis humistrata</i>	Endangered	Year collected - 1984 Catalogue number: BRI AQ0394782 Location: Between Oombah and Goolara (7.8 km west of pump station) Habitat: No detail provided
<i>Cupaniopsis shirleyana</i>	Vulnerable	Year collected - 1981 Catalogue number: MEL 0687604A Location: Turkey Beach, east of Miriam Vale (127 km south-east of Clearing Impact Area E) Habitat: On sand near beach. Disturbed area. Note: A Wildnet record exists 1.68 km north of Clearing Impact Area B; however, this record is most likely <i>C. sp. Watalgan</i> rather than <i>C. shirleyana</i> .

Scientific name	NC (Plants) Reg Status	Details of closest record (ALA (2022))
<i>Cycas megacarpa</i>	Endangered	Year collected – 2015 Catalogue number: 39566505 Location: Location generalised but closest spatial record is shown 5.5 km west of pipeline alignment at Midgee. Habitat: No detail provided
<i>Dansiea elliptica</i>	Near threatened	Year collected - 1992 Catalogue number: BRI AQ0547608 Location: Boyles Road, 5km south south-west of Yarwun (3.4 km south of Clearing Impact Area D) Habitat: Remnant scrub
<i>Graptophyllum excelsum</i>	Near threatened	Year collected - 1997 Catalogue number: BRI AQ0572823 Location: State Forest 150, 13.5km SSW of Gladstone (13.93 km south-east of clearing Impact Area E) Habitat: Hilly terrain, valley with gravelly brown loam, chert. Tall open woodland (complex notophyll rainforest) of <i>Argyrodendron trifoliolatum</i> .
<i>Hernandia bivalvis</i>	Near threatened	Year collected - 1988 Catalogue number: BRI AQ0437245 Location: Mount Larcom Range (5.63 km north west of Clearing Impact Area E) Habitat: Rocky watercourse in dry rainforest
<i>Macropteranthes leiocaulis</i>	Near threatened	Year collected - 2015 Catalogue number: BRI AQ0950368 Location: 100 m south of the project corridor at Marble Creek (335 m west of Clearing Impact Area C) Habitat: Gallery rainforest
<i>Parsonsia larcomensis</i>	Vulnerable	Year collected - 1995 Catalogue number: BRI AQ0675500 Location: Mt Larcom south peak, 17.5km west north-west of Gladstone (4.09 km north of Clearing Impact Area D) Habitat: Very steep mountains, lithosols, skeletal soils, growing in rock, rocky soil
<i>Samadera bidwillii</i>	Vulnerable	Year collected - 1997 Catalogue number: BRI AQ0572784 Location: Mt Larcom (4.49 km north of Clearing Impact Area D) Habitat: Ridge top
<i>Zieria actites</i>	Critically Endangered	Year collected - 2011 Catalogue number: BRI AQ0818047 Location: Mt Larcom summit area; 2.5 km west south-west of Targinie (4.85 km north of Clearing Impact Area D) Habitat: Low shrubland of <i>Allocasuarina littoralis</i> , <i>Lophostemon confertus</i> , exposed trachyte rockfaces, western slopes

3.2 Essential habitat

According to the DoR Vegetation Management Report, the two polygons of regulated vegetation within the vicinity of Twelve Mile Road contain essential habitat for the EVNT flora species *Macropteranthes leiocaulis* (refer Appendix A).

3.3 Mapped Vegetation Communities

Regional Ecosystem (RE) mapping was used to guide determination of habitat areas. The mapped RE polygons (as depicted in the Vegetation Management Supporting Map) within each of the six clearing impact areas are listed in Table 5, together with the regulated vegetation category of each polygon and a description of each component RE. A copy of the mapping is included in Appendix A for reference.

Table 5. Mapped vegetation within clearing impact areas

RE polygon	Category	Description
Clearing Impact Area A		
11.3.3/ 11.3.4	B, R	11.3.3 – <i>Eucalyptus coolabah</i> woodland on alluvial plains. 11.3.4 – <i>Eucalyptus tereticornis</i> and/or <i>Eucalyptus</i> spp. woodland on alluvial plains.
Clearing Impact Area B		
11.3.27	B	11.3.27 – Freshwater wetlands.
11.3.3/ 11.3.27	R	11.3.3 – <i>Eucalyptus coolabah</i> woodland on alluvial plains. 11.3.27 – Freshwater wetlands.
11.3.4/ 11.3.2/ 11.3.25/ 11.3.27x1b	R	11.3.4 – <i>Eucalyptus tereticornis</i> and/or <i>Eucalyptus</i> spp. woodland on alluvial plains. 11.3.2 – <i>Eucalyptus populnea</i> woodland on alluvial plains. 11.3.25 – <i>Eucalyptus tereticornis</i> or <i>E. camaldulensis</i> woodland fringing drainage lines. 11.3.27x1b – Sedgeland to grasslands on Quaternary deposits.
Clearing Impact Area C		
11.1.2a	B	11.1.2a – Bare mud flats on Quaternary estuarine deposits, with very isolated individual stunted mangroves such as <i>Avicennia marina</i> and/or <i>Ceriops australis</i> .
Clearing Impact Area D		
11.3.26/ 11.11.16	C	11.3.26 – <i>Eucalyptus moluccana</i> or <i>E. microcarpa</i> woodland to open forest on margins of alluvial plains.
11.3.2/ 11.3.4	C, R	11.3.2 – <i>Eucalyptus populnea</i> woodland on alluvial plains. 11.3.4 – <i>Eucalyptus tereticornis</i> and/or <i>Eucalyptus</i> spp. woodland on alluvial plains.
Clearing Impact Area E		
11.3.25	B	11.3.25 – <i>Eucalyptus tereticornis</i> or <i>E. camaldulensis</i> woodland fringing drainage lines.
11.11.4/ 11.11.15/ 11.11.4c/ 11.11.5/ 11.11.18	B	11.11.4 – <i>Eucalyptus crebra</i> woodland on old sedimentary rocks with varying degrees of metamorphism and folding. 11.11.15 – <i>Eucalyptus crebra</i> woodland to open woodland on deformed and metamorphosed sediments and interbedded volcanics. 11.11.4c – <i>Eucalyptus moluccana</i> dominated woodland on old sedimentary rocks. 11.11.5 – Microphyll vine forest +/- <i>Araucaria cunninghamii</i> on old sedimentary rocks with varying degrees of metamorphism and folding. 11.11.18 – Semi-evergreen vine thicket on old sedimentary rocks with varying degrees of metamorphism and folding.
11.3.26/ 11.3.4/ 11.11.4c	C, R	11.3.26 – <i>Eucalyptus moluccana</i> or <i>E. microcarpa</i> woodland to open forest on margins of alluvial plains. 11.3.4 – <i>Eucalyptus tereticornis</i> and/or <i>Eucalyptus</i> spp. woodland on alluvial plains. 11.11.4c – <i>Eucalyptus moluccana</i> dominated woodland on old sedimentary rocks.

RE polygon	Category	Description
Clearing Impact Area F		
11.3.4/ 11.3.26/ 11.3.25	C	11.3.4 – <i>Eucalyptus tereticornis</i> and/or <i>Eucalyptus</i> spp. woodland on alluvial plains. 11.3.26 – <i>Eucalyptus moluccana</i> or <i>E. microcarpa</i> woodland to open forest on margins of alluvial plains. 11.3.25 – <i>Eucalyptus tereticornis</i> or <i>E. camaldulensis</i> woodland fringing drainage lines.
11.3.25	B	11.3.25 – <i>Eucalyptus tereticornis</i> or <i>E. camaldulensis</i> woodland fringing drainage lines.

Regulated vegetation category Codes: B – remnant vegetation, C – high-value regrowth vegetation, R – regrowth vegetation within 50 metres of a watercourse in the Burdekin, Mackay, Whitsunday and Wet Tropics Great Barrier Reef catchments.


4. Field Survey Results





The field survey encompassed the entire clearing footprint, clearing impact area and a 100 m buffer around known records. A spatial representation of survey effort expended during the on-ground survey is provided in Figure 2-1 to Figure 2-3. Survey results are presented in the following sub-sections.




4.1 Habitat Types within Clearing Impact Areas





Habitat types present in the clearing impact areas in the study area are described in Table 6. Their extents are represented spatially in Figure 2-1 to Figure 2-3.



Table 6. Habitat types present in clearing impact areas

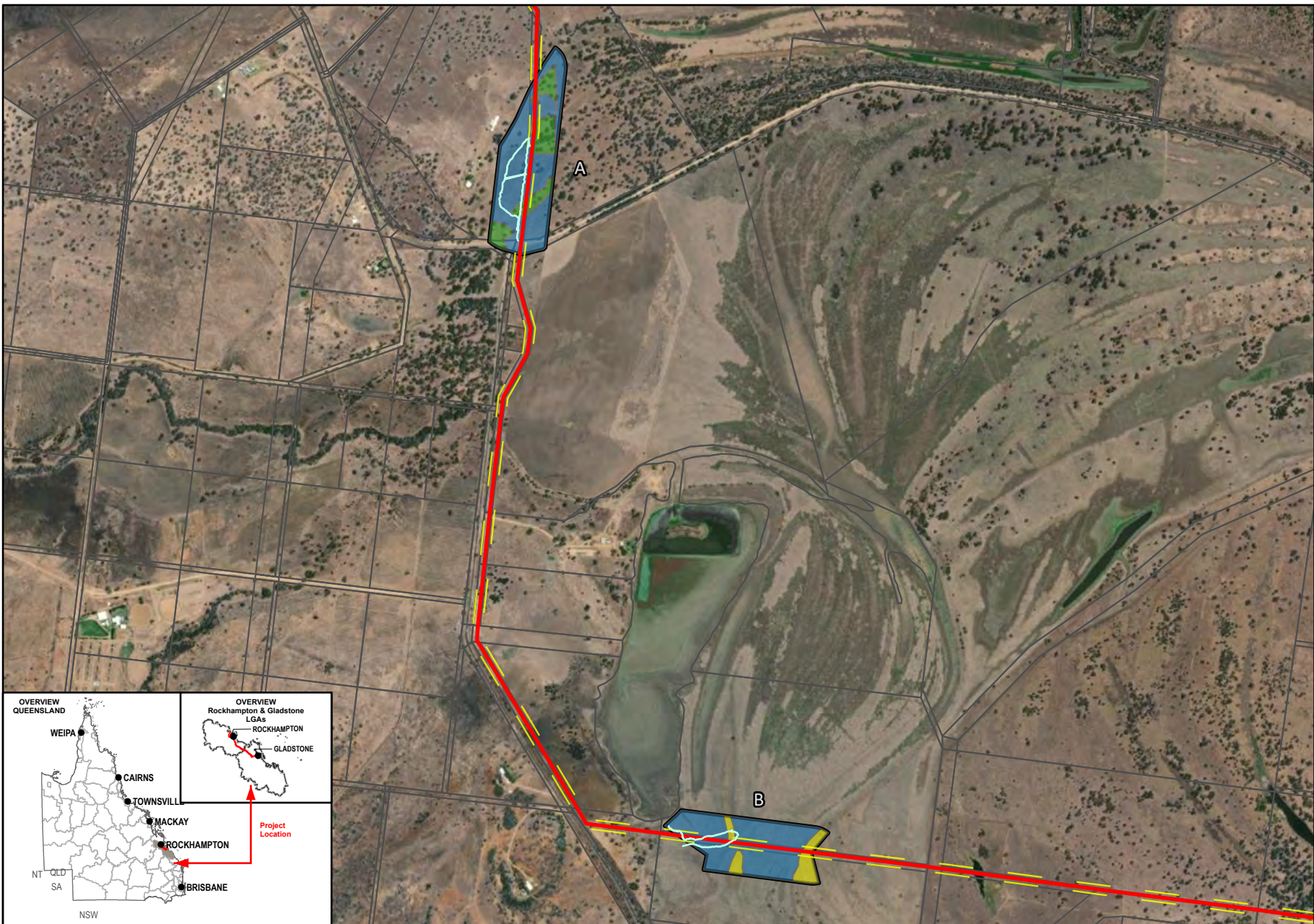
Habitat type	Description	Representative photograph
Clearing Impact Area A		
Highly disturbed (selectively cleared paddock with occasional mature trees)	Dense grassland dominated by <i>Megathyrsus maximus</i> *, <i>Urochloa mutica</i> *, <i>Dichanthium aristatum</i> *, <i>Eriochloa pseudoacrotricha</i> , <i>Echinochloa colona</i> *. Common herbs present included <i>Parthenium hysterophorus</i> *, <i>Aeschynomene indica</i> *, <i>Sesbania cannabina</i> , <i>Macroptilium lathyroides</i> *, <i>Sida</i> spp. Occasional mature <i>Eucalyptus tereticornis</i> , <i>Lysiphyllum hookeri</i> , <i>E. coolabah</i> , <i>Corymbia tessellaris</i> .	

Habitat type	Description	Representative photograph
Woodland on alluvial plain (11.3.3/11.3.4)	<p>T1 - <i>Eucalyptus tereticornis</i>, <i>E. coolabah</i> (12 – 18 m tall, 20 % cover).</p> <p>T2 - <i>Eucalyptus tereticornis</i>, <i>Lysiphyllum hookeri</i>, <i>E. coolabah</i>, <i>Corymbia tessellaris</i> (6-10 m tall, 10 % cover).</p> <p>G - <i>Eriochloa pseudoacrotricha</i>, <i>Megathyrsus maximus*</i>, <i>Urochloa mutica*</i>, <i>Parthenium hysterophorus*</i>, <i>Aeschynomene indica*</i>, <i>Sesbania cannabina</i>, <i>Macroptilium lathyroides*</i>, <i>Sida</i> spp. (0.3-1 m tall, 85% cover)</p>	
Clearing Impact Area B		
Highly disturbed (paddock)	<p>Dense grassland dominated by <i>Urochloa mutica*</i> with occasional herbs such as <i>Sesbania cannabina</i>, <i>Macroptilium lathyroides*</i>, <i>Abutilon incanum*</i>, <i>Parthenium hysterophorus*</i>, <i>Verbena rigida*</i>, <i>Cirsium vulgare*</i>.</p>	
Native grassland (11.3.27)	<p>Dense grassland dominated by <i>Eriochloa pseudoacrotricha</i>.</p>	
Clearing Impact Area C		
Sapphire shrubland (11.1.2b)	<p>Sapphire shrubland dominated by <i>Sporobolus virginicus</i>, <i>Tecticornia pergranulata</i> subsp. <i>queenslandica</i>, <i>Tecticornia indica</i>, <i>Sclerolaena muricata</i>, <i>Eriochloa</i> sp. <i>Chloris</i> sp. and <i>Atriplex muelleri</i>.</p>	

Habitat type	Description	Representative photograph
Grassland	Grassland dominated by <i>Aristida latifolia</i> , <i>Sporobolus</i> sp., <i>Eriochloa</i> sp., <i>Harissa martinii</i> * with emergent <i>Acacia salicina</i> and <i>Eremophila maculata</i> .	
Clearing Impact Area D		
Open forest on alluvial plain (11.3.1)	<p>T1 – <i>Casuarina cristata</i>, <i>Melaleuca bracteata</i>, <i>Eucalyptus populnea</i> (10-16 m tall, 70% cover).</p> <p>T2 – <i>C. cristata</i>, <i>M. bracteata</i>, <i>Diospyros geminata</i>, <i>Alectryon diversifolius</i>, <i>Denhamia oleaster</i> (2-5 m tall, 8% cover).</p> <p>S1 – <i>A. diversifolia</i>, <i>Breynia oblongifolia</i>, <i>C. cristata</i>, <i>M. bracteata</i> (0.5-2 m tall, 5% cover).</p> <p>G – <i>Eriochloa pseudoacrotricha</i>, <i>Chloris gayana</i>*, <i>Cyperus</i> spp., <i>Malvastrum americanum</i>, <i>Fimbristylis</i> sp. (0.5 m tall, 65% cover).</p>	
Open woodland on alluvial plain) 11.3.4/11.3.2	<p>T1 – <i>Eucalyptus tereticornis</i> (16-20 m tall, 7% cover).</p> <p>T2 – <i>Casuarina cristata</i>, <i>E. tereticornis</i>, <i>Eucalyptus populnea</i> (6-10 m tall, 70% cover).</p> <p>T3 – <i>C. cristata</i>, <i>Cryptostegia grandiflora</i>* (2-4 m tall, 8% cover).</p> <p>S1 – <i>C. cristata</i> (1 m tall, 2% cover)</p> <p>G – <i>Hyparrhenia rufa</i>*, <i>Eriochloa pseudoacrotricha</i>, <i>Marsilea drummondii</i>, <i>Diplachne fusca</i> (0.5 m tall, 20% cover).</p>	

Habitat type	Description	Representative photograph
Clearing Impact Area E		
Woodland on metamorphic hills and rises – unit 1 (11.11.15/ 11.11.4)	<p>T1 – <i>Eucalyptus crebra</i>, <i>Corymbia erythrophloia</i>, <i>C. tessellaris</i>, <i>E. tereticornis</i> (14-18 m tall, 40 % cover).</p> <p>T2 – T1 juveniles, <i>Acacia fasciculifera</i>, <i>Lophostemon suaveolens</i>, <i>A. disparrima</i> subsp. <i>disparrima</i> (2-8 m tall, 5 % cover).</p> <p>S1 - <i>A. disparrima</i> subsp. <i>disparrima</i>, <i>Vachellia bidwillii</i>, <i>A. fasciculifera</i> (1.3 m tall, 3 % cover).</p> <p>G – <i>Themeda triandra</i>, <i>Hyparrhenia rufa</i>*, <i>Megathyrsus maximus</i>*, <i>Bothriochloa pertusa</i>* (0.1 – 1 m tall, 85 % cover).</p>	
Woodland on metamorphic hills and rises – unit 2 (11.11.4/ 11.11.15)	<p>T1 – <i>Eucalyptus crebra</i>, <i>Corymbia citriodora</i>, <i>E. moluccana</i>, <i>E. exserta</i> (12-18 m tall, 25% cover).</p> <p>T2 – <i>E. crebra</i>, <i>C. erythrophloia</i>, (6-10 m, 8% cover).</p> <p>T3 - <i>E. crebra</i>, <i>C. erythrophloia</i>, <i>Petalostigma pubescens</i>, <i>Alphitonia excelsa</i> (2-4 m, 5 % cover).</p> <p>S1 – <i>A. excelsa</i>, <i>E. crebra</i>, <i>Denhamia cunninghamii</i> (1.6 m tall, 5 % cover).</p> <p>G – Mid-dense <i>Themeda triandra</i>, <i>Sida hackettiana</i>, <i>Bothriochloa pertusa</i>*, <i>Stylosanthes scabra</i>*.</p>	
Woodland on lower slopes and plains (11.3.4/ 11.11.4)	<p>T1 – <i>Eucalyptus tereticornis</i>, <i>E. crebra</i>, <i>C. tessellaris</i>, <i>E. moluccana</i> (16 m tall, 25 % cover).</p> <p>T2 – T1 juveniles, <i>A. disparrima</i> subsp. <i>disparrima</i>, <i>Petalostigma pubescens</i>, <i>Corymbia intermedia</i> (2-8 m tall, 10 % cover).</p> <p>S1 – <i>Lantana camara</i>*, T1 juveniles (1 m tall, 3 % cover).</p> <p>G – <i>Cymbopogon refractus</i>, <i>Melinis repens</i>*, <i>Aristida</i> sp. <i>Cyanthillium cinereum</i> <i>Hyparrhenia rufa</i>*, <i>Megathyrsus maximus</i>* (0.1 – 0.7 m tall, 60%).</p>	
Highly disturbed (sparse regrowth)	Very sparse regrowth of <i>Eucalyptus tereticornis</i> , <i>E. crebra</i> , and <i>Acacia</i> spp. over dense <i>Hyparrhenia rufa</i> *, <i>Megathyrsus maximus</i> *, <i>Bothriochloa pertusa</i> *.	

Habitat type	Description	Representative photograph
Clearing Impact Area F		
<p>Woodland fringing watercourse (11.3.25)</p>	<p>T1 – <i>Eucalyptus tereticornis</i>, <i>Corymbia tessellaris</i>, <i>C. intermedia</i> (20-26 m tall, 40 % cover).</p> <p>T2 – <i>Melaleuca quinquenervia</i>, <i>M. fluviatilis</i>, <i>Acacia disparrima</i> subsp. <i>disparrima</i>, <i>Lophostemon suaveolens</i>, <i>Euroschinus falcatus</i> (10-15 m tall, 20 % cover).</p> <p>T3 – <i>Cupaniopsis anacardioides</i>, <i>Timonius timon</i>, <i>Mallotus philippensis</i>, <i>Syzygium australe</i> (2-5 m tall, 10 % cover).</p> <p>S1 – <i>Ficus opposita</i>, <i>Senna pendula</i> var. <i>glabrata</i>*, <i>A. disparrima</i> subsp. <i>disparrima</i>, <i>M. quinquenervia</i>, <i>Clerodendrum floribundum</i>, <i>Acacia fasciculifera</i> (1.5 m tall, 2% cover).</p> <p>G – <i>Megathyrsus maximus</i>*, <i>Cyperus involucratus</i>*, <i>Lomandra hystrix</i> (0.3 – 1.5 m tall, 70%).</p>	
<p>Woodland on alluvial plains and open depressions (11.3.4/11.3.25)</p>	<p>T1 – <i>Eucalyptus tereticornis</i>, <i>Corymbia tessellaris</i>, <i>E. crebra</i> (25 m tall, 25 % cover).</p> <p>T2 – <i>E. tereticornis</i>, <i>C. tessellaris</i>, <i>E. crebra</i>, <i>Lophostemon suaveolens</i> (12 m tall, 20 % cover).</p> <p>T3 – <i>Planchonia careya</i>, <i>Acacia fasciculifera</i>, <i>A. disparrima</i> subsp. <i>disparrima</i>, <i>Ficus opposita</i> (4 m tall, 15 % cover).</p> <p>G – <i>Hyparrhenia rufa</i>*, <i>Megathyrsus maximus</i>* (0.1 – 1 m tall, 60%).</p>	



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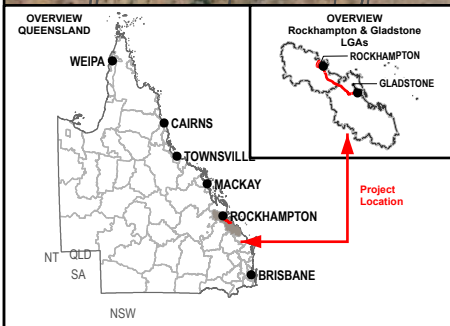
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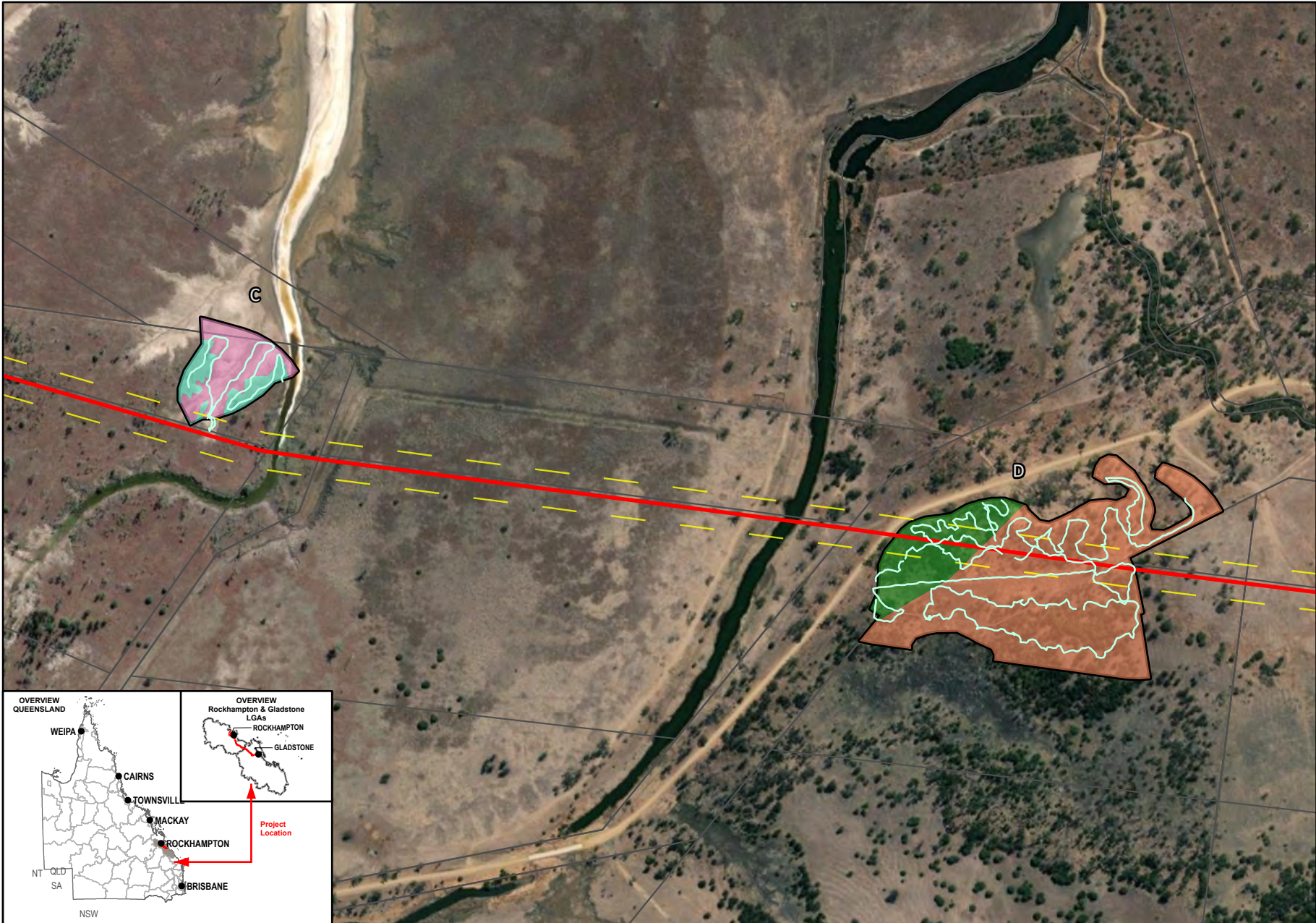
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- Study Area
 - Pipeline Alignment
 - Flora survey tracks
 - Property Boundary
 - Clearing Impact Area - Northern Section
- Flora survey habitat types - Northern Section**
- Highly disturbed
 - Native grassland
 - Woodland on alluvial plain

Data Sources:

1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Meters

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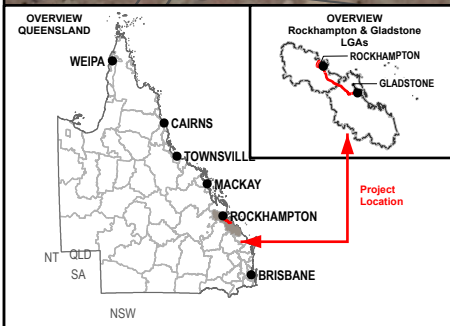
- Legend**
- Study Area
 - Pipeline Alignment
 - Flora survey tracks
 - Property Boundary
 - Clearing Impact Area - SGIC SDA
- Flora survey habitat types - SGIC**
- Grassland
 - Open forest on alluvial plain
 - Open woodland on alluvial plain
 - Samphire shrubland

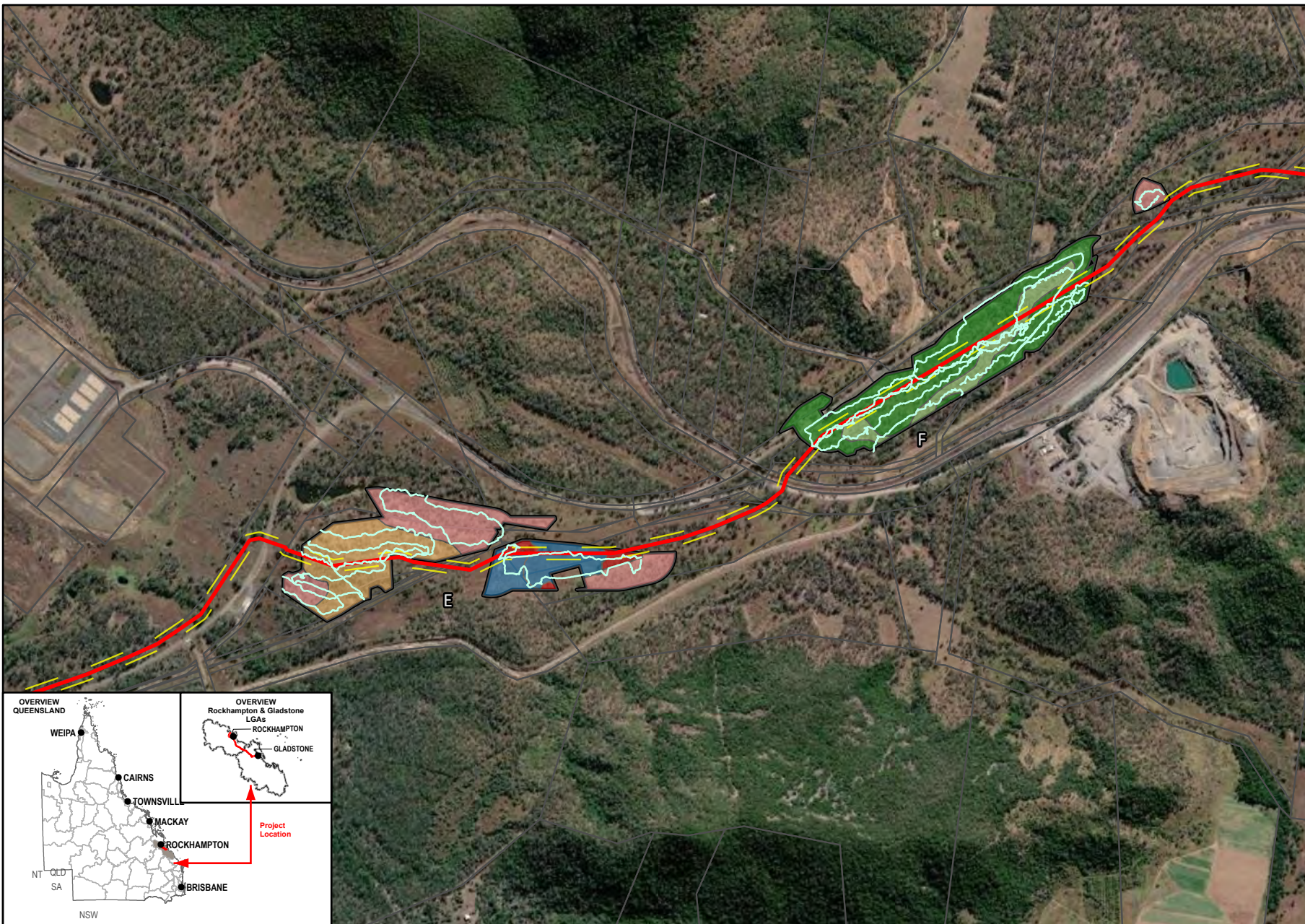
Data Sources:

1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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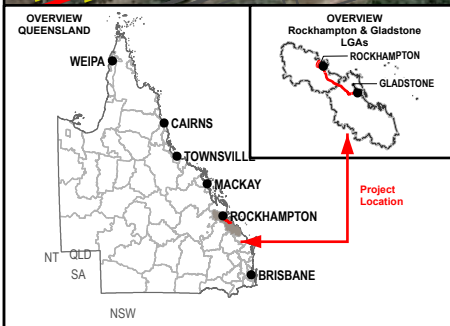
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- Legend**
- Study Area
 - Pipeline Alignment
 - Flora survey tracks
 - Property Boundary
 - Clearing Impact Area - GSDA
- Flora survey habitat types - GSDA**
- Highly disturbed
 - Woodland fringing watercourse
 - Woodland on alluvial plains and open depressions
 - Woodland on lower slopes and plains
 - Woodland on metamorphic hills and rises Unit 1
 - Woodland on metamorphic hills and rises Unit 2

Data Sources:

1. Base Layers (Roads, waterway, locality, LGA etc) @ QSpatial, 2021
2. Imagery @ Esri, Maxar, GeoEye, Earthstar Geographics, CNES-Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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4.2 EVNT Flora Species Recorded

No EVNT flora species were recorded within the study area during the field assessment. A voucher specimen of the plant identified by the Queensland Herbarium in 2015 as *Macropteranthes leiocaulis* at Marble Creek (- 23.6833, 150.7581) (BRI AQ0950368) was lodged with the herbarium on 11 May 2022 as its morphological features and supporting habitat appeared more closely aligned to *Macropteranthes fitzalanii*. The herbarium confirmed the specimen's identity as *Macropteranthes fitzalanii* on 30 May 2022 (Herbarium reference: ME:PT 263/22). A high level of confidence is assigned to this identification as a fruiting specimen was supplied for identification purposes. It appears that the name *Macropteranthes leiocaulis* was misapplied to this plant in 2015. Of note, the conservation status of *M. fitzalanii* under the NC Act was reclassified from near threatened to least concern in 2014.

5. Permitting/Notification Requirements

As no EVNT flora species were recorded during the survey, this report is to be submitted to DES to notify the department that the proposed clearing is exempt under the NC(Plants) Reg. The following timeframes are applicable to this project:

- The report must be provided at least one (1) week before commencement of clearing, and no later than 12 months after the flora survey was undertaken (as per the DES Code of Practice for the take and use of protected plants under an exemption).
- Clearing is to occur within 3 years after the day the flora survey was complete (NC(Plants)Reg Section 48).

6. References

Department of Environment and Heritage Protection (2020). Flora Survey Guidelines – Protected Plants. State of Queensland. Brisbane.

Department of Environment and Science (2022). Species Profile Search. Available at: <https://apps.des.qld.gov.au/species-search>. Accessed on 18 February and 11 March 2022.

Queensland Department of Natural Resources (DNR) (2000). Species Management Manual. Forest and Fauna Conservation and Ecology Section, Queensland Department of Natural Resources.

The State of Queensland (2021). Queensland Spatial Catalogue. Department of Natural Resources and Mines. Available from www.data.qld.gov.au. Accessed on 18 February and 11 March 2022.

Appendix A – Desktop Searches



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 08/02/22 18:37:06

[Summary](#)

[Details](#)

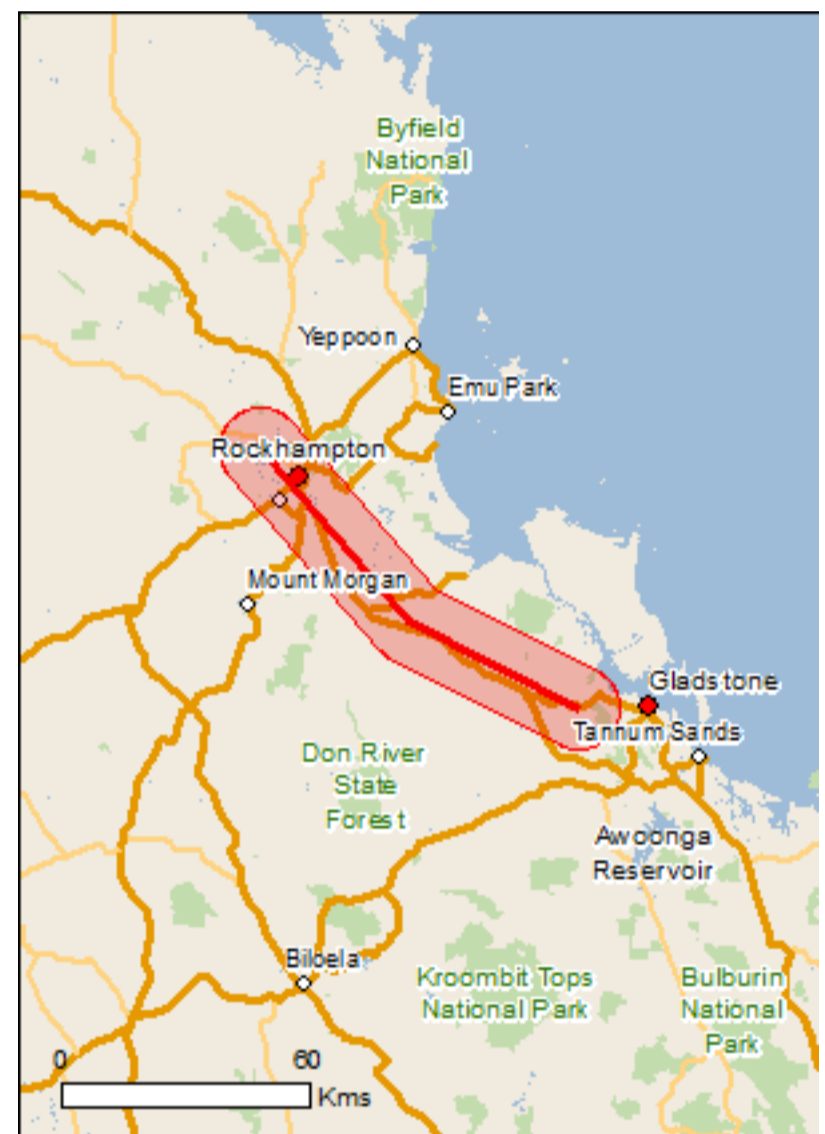
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

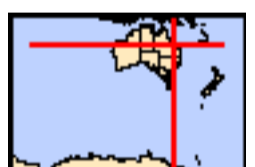
[Acknowledgements](#)



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[Coordinates](#)

[Buffer: 10.0Km](#)



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

World Heritage Properties:	1
National Heritage Places:	1
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	9
Listed Threatened Species:	62
Listed Migratory Species:	59

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	3
Commonwealth Heritage Places:	1
Listed Marine Species:	101
Whales and Other Cetaceans:	12
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

State and Territory Reserves:	6
Regional Forest Agreements:	None
Invasive Species:	42
Nationally Important Wetlands:	3
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

World Heritage Properties [\[Resource Information \]](#)

Name	State	Status
Great Barrier Reef	QLD	Declared property

National Heritage Properties [\[Resource Information \]](#)

Name	State	Status
Natural		
Great Barrier Reef	QLD	Listed place

Listed Threatened Ecological Communities [\[Resource Information \]](#)

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Name	Status	Type of Presence
Brigalow (Acacia harpophylla dominant and co-dominant)	Endangered	Community known to occur within area
Coastal Swamp Oak (Casuarina glauca) Forest of New South Wales and South East Queensland ecological community	Endangered	Community may occur within area
Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland	Endangered	Community likely to occur within area
Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions	Endangered	Community may occur within area
Lowland Rainforest of Subtropical Australia	Critically Endangered	Community likely to occur within area
Poplar Box Grassy Woodland on Alluvial Plains	Endangered	Community likely to occur within area
Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions	Endangered	Community likely to occur within area
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area
Weeping Myall Woodlands	Endangered	Community likely to occur within area

Listed Threatened Species [\[Resource Information \]](#)

Name	Status	Type of Presence
Birds		
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat may occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Roosting known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area

Name	Status	Type of Presence
Cyclopsitta diophthalma coxeni Coxen's Fig-Parrot [59714]	Endangered	Species or species habitat may occur within area
Epthianura crocea macgregori Capricorn Yellow Chat, Yellow Chat (Dawson) [67090]	Critically Endangered	Species or species habitat known to occur within area
Erythrorchis radiatus Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area
Fregetta grallaria grallaria White-bellied Storm-Petrel (Tasman Sea), White-bellied Storm-Petrel (Australasian) [64438]	Vulnerable	Species or species habitat likely to occur within area
Geophaps scripta scripta Squatter Pigeon (southern) [64440]	Vulnerable	Species or species habitat known to occur within area
Grantiella picta Painted Honeyeater [470]	Vulnerable	Species or species habitat may occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
Limosa lapponica baueri Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Neochmia ruficauda ruficauda Star Finch (eastern), Star Finch (southern) [26027]	Endangered	Species or species habitat likely to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area
Poephila cincta cincta Southern Black-throated Finch [64447]	Endangered	Species or species habitat may occur within area
Pterodroma neglecta neglecta Kermadec Petrel (western) [64450]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Turnix melanogaster Black-breasted Button-quail [923]	Vulnerable	Species or species habitat known to occur within area

Mammals

Name	Status	Type of Presence
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area
Chalinolobus dwyeri Large-eared Pied Bat, Large Pied Bat [183]	Vulnerable	Species or species habitat likely to occur within area
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area
Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Nyctophilus corbeni Corben's Long-eared Bat, South-eastern Long-eared Bat [83395]	Vulnerable	Species or species habitat may occur within area
Petauroides volans Greater Glider [254]	Vulnerable	Species or species habitat known to occur within area
Phascolarctos cinereus (combined populations of Qld, NSW and the ACT) Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Vulnerable	Species or species habitat likely to occur within area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Xeromys myoides Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat known to occur within area
Plants		
Atalaya collina Yarwun Whitewood [55417]	Endangered	Species or species habitat known to occur within area
Bosistoa transversa Three-leaved Bosistoa, Yellow Satinheart [16091]	Vulnerable	Species or species habitat likely to occur within area
Bulbophyllum globuliforme Miniature Moss-orchid, Hoop Pine Orchid [6649]	Vulnerable	Species or species habitat likely to occur within area
Cossinia australiana Cossinia [3066]	Endangered	Species or species habitat likely to occur within area
Cupaniopsis shirleyana Wedge-leaf Tuckeroo [3205]	Vulnerable	Species or species habitat known to occur within area
Cycas megacarpa [55794]	Endangered	Species or species habitat known to occur within area
Cycas ophiolitica [55797]	Endangered	Species or species habitat known to occur within area
Dichanthium setosum bluegrass [14159]	Vulnerable	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Eucalyptus raveretiana Black Ironbox [16344]	Vulnerable	Species or species habitat known to occur within area
Macadamia integrifolia Macadamia Nut, Queensland Nut Tree, Smooth-shelled Macadamia, Bush Nut, Nut Oak [7326]	Vulnerable	Species or species habitat likely to occur within area
Marsdenia brevifolia [64585]	Vulnerable	Species or species habitat likely to occur within area
Parsonsia larcomensis Mt Larcom Silk Pod [64587]	Vulnerable	Species or species habitat known to occur within area
Phaius australis Lesser Swamp-orchid [5872]	Endangered	Species or species habitat likely to occur within area
Samadera bidwillii Quassia [29708]	Vulnerable	Species or species habitat known to occur within area
Reptiles		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Delma torquata Adorned Delma, Collared Delma [1656]	Vulnerable	Species or species habitat may occur within area
Denisonia maculata Ornamental Snake [1193]	Vulnerable	Species or species habitat known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Egernia rugosa Yakka Skink [1420]	Vulnerable	Species or species habitat known to occur within area
Elseya albagula Southern Snapping Turtle, White-throated Snapping Turtle [81648]	Critically Endangered	Species or species habitat known to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Furina dunmali Dunmall's Snake [59254]	Vulnerable	Species or species habitat known to occur within area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Rheodytes leukops Fitzroy River Turtle, Fitzroy Tortoise, Fitzroy Turtle, White-eyed River Diver [1761]	Vulnerable	Species or species habitat known to occur within area

Name	Status	Type of Presence
Sharks		
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding likely to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area

Listed Migratory Species [\[Resource Information \]](#)

* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
Migratory Marine Birds		
Anous stolidus Common Noddy [825]		Species or species habitat known to occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat may occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat likely to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Sternula albifrons Little Tern [82849]		Species or species habitat may occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area

Migratory Marine Species

Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or

Name	Threatened	Type of Presence
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		related behaviour known to occur within area Species or species habitat likely to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Dugong dugon Dugong [28]		Species or species habitat known to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat may occur within area
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Orcaella heinsohni Australian Snubfin Dolphin [81322]		Species or species habitat likely to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding likely to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Breeding known to occur within area
Migratory Terrestrial Species		
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
Monarcha trivirgatus Spectacled Monarch [610]		Species or species habitat known to occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Arenaria interpres Ruddy Turnstone [872]		Roosting known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Roosting known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Calidris ruficollis Red-necked Stint [860]		Roosting known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Roosting known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area
Gallinago megala Swinhoe's Snipe [864]		Roosting likely to occur within area
Gallinago stenura Pin-tailed Snipe [841]		Roosting likely to occur within area
Limnodromus semipalmatus Asian Dowitcher [843]		Species or species habitat may occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting likely to occur within area
Numenius phaeopus Whimbrel [849]		Roosting known to occur within area

Name	Threatened	Type of Presence
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Pluvialis fulva Pacific Golden Plover [25545]		Roosting known to occur within area
Pluvialis squatarola Grey Plover [865]		Roosting known to occur within area
Tringa brevipes Grey-tailed Tattler [851]		Roosting known to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area
Xenus cinereus Terek Sandpiper [59300]		Roosting known to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land [\[Resource Information \]](#)

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Name
Defence - LOGISTIC SUPPORT DEPOT - ROCKHAMPTON
Defence - ROCKHAMPTON AIRFIELD
Defence - ROCKHAMPTON TRAINING DEPOT

Commonwealth Heritage Places [\[Resource Information \]](#)

Name	State	Status
Historic		
ABC Radio Studios	QLD	Listed place

Listed Marine Species [\[Resource Information \]](#)

* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Anous stolidus Common Noddy [825]		Species or species habitat known to occur within area
Anseranas semipalmata Magpie Goose [978]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea ibis Cattle Egret [59542]		Breeding likely to occur within area
Arenaria interpres Ruddy Turnstone [872]		Roosting known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Roosting known to occur within area

Name	Threatened	Type of Presence
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Calidris ruficollis Red-necked Stint [860]		Roosting known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Roosting known to occur within area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat may occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area
Charadrius ruficapillus Red-capped Plover [881]		Roosting known to occur within area
Chrysococcyx osculans Black-eared Cuckoo [705]		Species or species habitat likely to occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat likely to occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area
Gallinago megala Swinhoe's Snipe [864]		Roosting likely to occur within area
Gallinago stenura Pin-tailed Snipe [841]		Roosting likely to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Heteroscelus brevipes Grey-tailed Tattler [59311]		Roosting known to occur within area
Himantopus himantopus Pied Stilt, Black-winged Stilt [870]		Roosting known to occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
Limnodromus semipalmatus Asian Dowitcher [843]		Species or species habitat may occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat likely to occur within area
Monarcha trivirgatus Spectacled Monarch [610]		Species or species habitat known to occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting likely to occur within area
Numenius phaeopus Whimbrel [849]		Roosting known to occur within area
Pachyptila turtur Fairy Prion [1066]		Species or species habitat likely to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Pluvialis fulva Pacific Golden Plover [25545]		Roosting known to occur within area
Pluvialis squatarola Grey Plover [865]		Roosting known to occur within area
Recurvirostra novaehollandiae Red-necked Avocet [871]		Roosting known to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat known to occur within area
Sterna albifrons Little Tern [813]		Species or species habitat may occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area
Xenus cinereus Terek Sandpiper [59300]		Roosting known to occur within area

Fish

Name	Threatened	Type of Presence
Acentronura tentaculata Shortpouch Pygmy Pipehorse [66187]		Species or species habitat may occur within area
Campichthys tryoni Tryon's Pipefish [66193]		Species or species habitat may occur within area
Choeroichthys brachysoma Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
Corythoichthys amplexus Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area
Corythoichthys flavofasciatus Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area
Corythoichthys haematopterus Reef-top Pipefish [66201]		Species or species habitat may occur within area
Corythoichthys intestinalis Australian Messmate Pipefish, Banded Pipefish [66202]		Species or species habitat may occur within area
Corythoichthys ocellatus Orange-spotted Pipefish, Ocellated Pipefish [66203]		Species or species habitat may occur within area
Corythoichthys paxtoni Paxton's Pipefish [66204]		Species or species habitat may occur within area
Corythoichthys schultzi Schultz's Pipefish [66205]		Species or species habitat may occur within area
Doryrhamphus excisus Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area
Festucalex cinctus Girdled Pipefish [66214]		Species or species habitat may occur within area
Filicampus tigris Tiger Pipefish [66217]		Species or species habitat may occur within area
Halicampus dunckeri Red-hair Pipefish, Duncker's Pipefish [66220]		Species or species habitat may occur within area
Halicampus grayi Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
Halicampus nitidus Glittering Pipefish [66224]		Species or species habitat may occur within area
Halicampus spinirostris Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
Hippichthys cyanospilos Blue-speckled Pipefish, Blue-spotted Pipefish [66228]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Hippichthys heptagonus Madura Pipefish, Reticulated Freshwater Pipefish [66229]		Species or species habitat may occur within area
Hippichthys penicillus Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area
Hippocampus bargibanti Pygmy Seahorse [66721]		Species or species habitat may occur within area
Hippocampus kuda Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
Hippocampus planifrons Flat-face Seahorse [66238]		Species or species habitat may occur within area
Hippocampus zebra Zebra Seahorse [66241]		Species or species habitat may occur within area
Lissocampus runa Javelin Pipefish [66251]		Species or species habitat may occur within area
Micrognathus andersonii Anderson's Pipefish, Shortnose Pipefish [66253]		Species or species habitat may occur within area
Micrognathus brevis thorntail Pipefish, Thorn-tailed Pipefish [66254]		Species or species habitat may occur within area
Nannocampus pictus Painted Pipefish, Reef Pipefish [66263]		Species or species habitat may occur within area
Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area
Solenostomus paradoxus Ornate Ghostpipefish, Harlequin Ghost Pipefish, Ornate Ghost Pipefish [66184]		Species or species habitat may occur within area
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
Mammals		
Dugong dugon Dugong [28]		Species or species habitat known to occur within area
Reptiles		
Acalyptophis peronii Horned Seasnake [1114]		Species or species habitat may occur within area
Aipysurus duboisii Dubois' Seasnake [1116]		Species or species habitat may occur within

Name	Threatened	Type of Presence area
Aipysurus eydouxii Spine-tailed Seasnake [1117]		Species or species habitat may occur within area
Aipysurus laevis Olive Seasnake [1120]		Species or species habitat may occur within area
Astrotia stokesii Stokes' Seasnake [1122]		Species or species habitat may occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area
Disteira major Olive-headed Seasnake [1124]		Species or species habitat may occur within area
Emydocephalus annulatus Turtle-headed Seasnake [1125]		Species or species habitat may occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Hydrophis elegans Elegant Seasnake [1104]		Species or species habitat may occur within area
Lapemis hardwickii Spine-bellied Seasnake [1113]		Species or species habitat may occur within area
Laticauda colubrina a sea krait [1092]		Species or species habitat may occur within area
Laticauda laticaudata a sea krait [1093]		Species or species habitat may occur within area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area

Whales and other Cetaceans		[Resource Information]
Name	Status	Type of Presence
Mammals		
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area
Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Orcaella brevirostris Irrawaddy Dolphin [45]		Species or species habitat likely to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Breeding known to occur within area
Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area

Extra Information

State and Territory Reserves		[Resource Information]
Name	State	
Calliope	QLD	
Long Island Bend	QLD	
Mount Archer	QLD	
Pindari	QLD	
Rockhampton Pistol Club	QLD	
Rundle Range	QLD	

Invasive Species

[[Resource Information](#)]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resources Audit, 2001.

Name	Status	Type of Presence
Birds		
Acridotheres tristis Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Anas platyrhynchos Mallard [974]		Species or species habitat likely to occur within area
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Lonchura punctulata Nutmeg Mannikin [399]		Species or species habitat likely to occur within area
Passer domesticus House Sparrow [405]		Species or species habitat likely to occur within area
Streptopelia chinensis Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Sturnus vulgaris Common Starling [389]		Species or species habitat likely to occur within area
Frogs		
Rhinella marina Cane Toad [83218]		Species or species habitat known to occur within area
Mammals		
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Equus caballus Horse [5]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Lepus capensis Brown Hare [127]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur

Name	Status	Type of Presence
Oryctolagus cuniculus Rabbit, European Rabbit [128]		within area Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Acacia nilotica subsp. indica Prickly Acacia [6196]		Species or species habitat may occur within area
Andropogon gayanus Gamba Grass [66895]		Species or species habitat likely to occur within area
Anredera cordifolia Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643]		Species or species habitat likely to occur within area
Asparagus aethiopicus Asparagus Fern, Ground Asparagus, Basket Fern, Sprengi's Fern, Bushy Asparagus, Emerald Asparagus [62425]		Species or species habitat likely to occur within area
Asparagus africanus Climbing Asparagus, Climbing Asparagus Fern [66907]		Species or species habitat likely to occur within area
Asparagus plumosus Climbing Asparagus-fern [48993]		Species or species habitat likely to occur within area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Cryptostegia grandiflora Rubber Vine, Rubbervine, India Rubber Vine, India Rubbervine, Palay Rubbervine, Purple Allamanda [18913]		Species or species habitat likely to occur within area
Dolichandra unguis-cati Cat's Claw Vine, Yellow Trumpet Vine, Cat's Claw Creeper, Funnel Creeper [85119]		Species or species habitat likely to occur within area
Eichhornia crassipes Water Hyacinth, Water Orchid, Nile Lily [13466]		Species or species habitat likely to occur within area
Hymenachne amplexicaulis Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754]		Species or species habitat likely to occur within area
Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507]		Species or species habitat likely to occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		Species or species habitat likely to occur within area
Opuntia spp. Prickly Pears [82753]		Species or species

Name	Status	Type of Presence
Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		habitat likely to occur within area
Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566]		Species or species habitat likely to occur within area
Prosopis spp. Mesquite, Algaroba [68407]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron & S.x reichardtii Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]		Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur within area
Vachellia nilotica Prickly Acacia, Blackthorn, Prickly Mimosa, Black Piquant, Babul [84351]		Species or species habitat likely to occur within area

Reptiles

Hemidactylus frenatus Asian House Gecko [1708]		Species or species habitat likely to occur within area
Ramphotyphlops braminus Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat may occur within area

Nationally Important Wetlands

[Resource Information]

Name	State
Fitzroy River Delta	QLD
Fitzroy River Floodplain	QLD
Port Curtis	QLD

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species distributions have been derived through a variety of methods. Where distributions are well known and if time permits, maps are derived using either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc) together with point locations and described habitat; or environmental modelling (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Coordinates

-23.8486 151.1024,-23.6784 150.7369,-23.333 150.4122

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- [-Natural history museums of Australia](#)
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- [-Other groups and individuals](#)

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact Us](#) page.

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Queensland Government

WildNet species list

Search Criteria: Species List for a Specified Point
Species: Plants (including other non-animals such as fungi and protists)
Type: All
Queensland status: Rare and threatened species
Records: All
Date: All
Latitude: -23.3315
Longitude: 150.4129
Distance: 10
Email: peter@redashconsulting.com.au
Date submitted: Friday 11 Feb 2022 11:21:31
Date extracted: Friday 11 Feb 2022 11:30:02

The number of records retrieved = 1

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Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
plants	land plants	Capparaceae	<i>Capparis humistrata</i>			E		1/1

CODES

I - Y indicates that the taxon is introduced to Queensland and has naturalised.

Q - Indicates the Queensland conservation status of each taxon under the *Nature Conservation Act 1992*.

The codes are Extinct (EX), Extinct in the Wild (PE), Critically Endangered (CR), Endangered (E), Vulnerable (V), Near Threatened (NT), Special Least Concern (SL) and Least Concern (C).

A - Indicates the Australian conservation status of each taxon under the *Environment Protection and Biodiversity Conservation Act 1999*.

The values of EPBC are Extinct (EX), Extinct in the Wild (XW), Critically Endangered (CE), Endangered (E), Vulnerable (V) and Conservation Dependent (CD).

Records - The first number indicates the total number of records of the taxon (wildlife records and species listings for selected areas).

This number is output as 99999 if it equals or exceeds this value. A second number located after a / indicates the number of specimen records for the taxon.

This number is output as 999 if it equals or exceeds this value.



Queensland Government

WildNet species list

Search Criteria: Species List for a Specified Point
Species: Plants (including other non-animals such as fungi and protists)
Type: All
Queensland status: Rare and threatened species
Records: All
Date: All
Latitude: -23.8504
Longitude: 151.0873
Distance: 10
Email: peter@redashconsulting.com.au
Date submitted: Friday 11 Feb 2022 11:23:56
Date extracted: Friday 11 Feb 2022 11:30:10

The number of records retrieved = 10

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Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
plants	land plants	Acanthaceae	<i>Graptophyllum excelsum</i>			NT		3
plants	land plants	Apocynaceae	<i>Parsonsia larcomensis</i>			V	V	7/7
plants	land plants	Combretaceae	<i>Dansiea elliptica</i>			NT		6/4
plants	land plants	Combretaceae	<i>Macropteranthes leiocaulis</i>			NT		4/2
plants	land plants	Cycadaceae	<i>Cycas megacarpa</i>			E	E	6/4
plants	land plants	Hernandiaceae	<i>Hernandia bivalvis</i>	cudgerie		NT		6/3
plants	land plants	Rutaceae	<i>Zieria actites</i>	Mt Larcom stink bush		CR		6/6
plants	land plants	Sapindaceae	<i>Atalaya collina</i>			E	E	12/11
plants	land plants	Sapindaceae	<i>Cupaniopsis shirleyana</i>	wedge-leaf tuckeroo		V	V	3/1
plants	land plants	Simaroubaceae	<i>Samadera bidwillii</i>			V	V	4/4

CODES

I - Y indicates that the taxon is introduced to Queensland and has naturalised.

Q - Indicates the Queensland conservation status of each taxon under the *Nature Conservation Act 1992*.

The codes are Extinct (EX), Extinct in the Wild (PE), Critically Endangered (CR), Endangered (E), Vulnerable (V), Near Threatened (NT), Special Least Concern (SL) and Least Concern (C).

A - Indicates the Australian conservation status of each taxon under the *Environment Protection and Biodiversity Conservation Act 1999*.

The values of EPBC are Extinct (EX), Extinct in the Wild (XW), Critically Endangered (CE), Endangered (E), Vulnerable (V) and Conservation Dependent (CD).

Records - The first number indicates the total number of records of the taxon (wildlife records and species listings for selected areas).

This number is output as 99999 if it equals or exceeds this value. A second number located after a / indicates the number of specimen records for the taxon.

This number is output as 999 if it equals or exceeds this value.



Vegetation management report

For Lot: 84 Plan: DS185

10/03/2022

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Recent changes

Updated mapping

Updated vegetation mapping was released on 8 September 2021 and includes the most recent Queensland Herbarium scientific updates to the Regulated Vegetation Management Map, regional ecosystems, wetland, high-value regrowth and essential habitat mapping.

The Department of Environment and Science have also updated their protected plant and koala protection mapping to align with the Queensland Herbarium scientific updates.

Overview

Based on the lot on plan details you have supplied, this report provides the following detailed information:

Property details - information about the specified Lot on Plan, lot size, local government area, bioregion(s), subregion(s) and catchment(s);

Vegetation management framework - an explanation of the application of the framework and contact details for the Department of Resources who administer the framework;

Vegetation management framework details for the specified Lot on Plan including:

- the vegetation management categories on the property;
- the vegetation management regional ecosystems on the property;
- vegetation management watercourses or drainage features on the property;
- vegetation management wetlands on the property;
- vegetation management essential habitat on the property;
- whether any area management plans are associated with the property;
- whether the property is coastal or non-coastal; and
- whether the property is mapped as Agricultural Land Class A or B;

Protected plant framework - an explanation of the application of the framework and contact details for the Department of Environment and Science who administer the framework, including:

- high risk areas on the protected plant flora survey trigger map for the property;

Koala protection framework - an explanation of the application of the framework and contact details for the Department of Environment and Science who administer the framework; and

Koala protection framework details for the specified Lot on Plan including:

- the koala district the property is located in;
- koala priority areas on the property;
- core and locally refined koala habitat areas on the property;
- whether the lot is located in an identified koala broad-hectare area; and
- koala habitat regional ecosystems on the property for core koala habitat areas.

This information will assist you to determine your options for managing vegetation under:

- the vegetation management framework, which may include:

- exempt clearing work;
- accepted development vegetation clearing code;
- an area management plan;
- a development approval;

- the protected plant framework, which may include:

- the need to undertake a flora survey;
- exempt clearing;
- a protected plant clearing permit;

- the koala protection framework, which may include:

- exempted development;
- a development approval;
- the need to undertake clearing sequentially and in the presence of a koala spotter.

Other laws

The clearing of native vegetation is regulated by both Queensland and Australian legislation, and some local governments also regulate native vegetation clearing. You may need to obtain an approval or permit under another Act, such as the Commonwealth Government's *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Section 8 of this guide provides contact details of other agencies you should confirm requirements with, before commencing vegetation clearing.

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1. Property details

1.1 Tenure and title area

All of the lot, plan, tenure and title area information associated with property Lot: 84 Plan: DS185, are listed in Table 1.

Table 1: Lot, plan, tenure and title area information for the property

Lot	Plan	Tenure	Property title area (sq metres)
84	DS185	Freehold	1,054,710
A	SP226062	Easement	262,100

The tenure of the land may affect whether clearing is considered exempt clearing work or may be carried out under an accepted development vegetation clearing code.

1.2 Property location

Table 2 provides a summary of the locations for property Lot: 84 Plan: DS185, in relation to natural and administrative boundaries.

Table 2: Property location details

Local Government(s)
Rockhampton Regional

Bioregion(s)	Subregion(s)
Brigalow Belt	Marlborough Plains

Catchment(s)
Fitzroy

2. Vegetation management framework (administered by the Department of Resources)

The *Vegetation Management Act 1999* (VMA), the *Vegetation Management Regulation 2012*, the *Planning Act 2016* and the *Planning Regulation 2017*, in conjunction with associated policies and codes, form the Vegetation Management Framework.

The VMA does not apply to all land tenures or vegetation types. State forests, national parks, forest reserves and some tenures under the *Forestry Act 1959* and *Nature Conservation Act 1992* are not regulated by the VMA. Managing or clearing vegetation on these tenures may require approvals under these laws.

The following native vegetation is not regulated under the VMA but may require permit(s) under other laws:

- grass or non-woody herbage;
- a plant within a grassland regional ecosystem prescribed under Schedule 5 of the *Vegetation Management Regulation 2012*; and
- a mangrove.

2.1 Exempt clearing work

Exempt clearing work is an activity for which you do not need to notify the Department of Resources or obtain an approval under the vegetation management framework. Exempt clearing work was previously known as exemptions.

In areas that are mapped as Category X (white in colour) on the regulated vegetation management map (see section 4.1), and where the land tenure is freehold, indigenous land and leasehold land for agriculture and grazing purposes, the clearing of vegetation is considered exempt clearing work and does not require notification or development approval under the vegetation management framework. For all other land tenures, contact the Department of Resources before commencing clearing to ensure that the proposed activity is exempt clearing work.

A range of routine property management activities are considered exempt clearing work. A list of exempt clearing work is available at

<https://www.qld.gov.au/environment/land/management/vegetation/clearing-approvals/exemptions>.

Exempt clearing work may be affected if the proposed clearing area is subject to development approval conditions, a covenant, an environmental offset, an exchange area, a restoration notice, or an area mapped as Category A. Exempt clearing work may require approval under other Commonwealth, State or Local Government laws, or local government planning schemes. Contact the Department of Resources prior to clearing in any of these areas.

2.2 Accepted development vegetation clearing codes

Some clearing activities can be undertaken under an accepted development vegetation clearing code. The codes can be downloaded at

<https://www.qld.gov.au/environment/land/management/vegetation/clearing-approvals/codes>

If you intend to clear vegetation under an accepted development vegetation clearing code, you must notify the Department of Resources before commencing. The information in this report will assist you to complete the online notification form.

You can complete the online form at

<https://apps.dnrm.qld.gov.au/vegetation/>

2.3 Area management plans

Area Management Plans (AMP) provide an alternative approval system for vegetation clearing under the vegetation management framework. They list the purposes and clearing conditions that have been approved for the areas covered by the plan. It is not necessary to use an AMP, even when an AMP applies to your property.

On 8 March 2020, AMPs ended for fodder harvesting, managing thickened vegetation and managing encroachment. New notifications cannot be made for these AMPs. You will need to consider options for fodder harvesting, managing thickened vegetation or encroachment under a relevant accepted development vegetation clearing code or apply for a development approval.

New notifications can be made for all other AMPs. These will continue to apply until their nominated end date.

If an Area Management Plan applies to your property for which you can make a new notification, it will be listed in Section 3.6 of this report. Before clearing under one of these AMPs, you must first notify the Department of Resources and then follow the conditions and requirements listed in the AMP.

<https://www.qld.gov.au/environment/land/management/vegetation/clearing-approvals/area-management-plans>

2.4 Development approvals

If under the vegetation management framework your proposed clearing is not exempt clearing work, or is not permitted under an accepted development vegetation clearing code, or an AMP, you may be able to apply for a development approval. Information on how to apply for a development approval is available at

<https://www.qld.gov.au/environment/land/management/vegetation/clearing-approvals/development>

2.5. Contact information for the Department of Resources

For further information on the vegetation management framework:

Phone 135VEG (135 834)

Email vegetation@resources.qld.gov.au

Visit <https://www.resources.qld.gov.au/?contact=vegetation> to submit an online enquiry.

3. Vegetation management framework for Lot: 84 Plan: DS185

3.1 Vegetation categories

The vegetation categories on your property are shown on the regulated vegetation management map in section 4.1 of this report. A summary of vegetation categories on the subject lot are listed in Table 3. Descriptions for these categories are shown in Table 4.

Table 3: Vegetation categories for subject property. Total area: 105.53ha

Vegetation category	Area (ha)
Category B	0.9
Category C	12.2
Category R	< 0.1
Category X	92.4

Table 4: Description of vegetation categories

Category	Colour on Map	Description	Requirements / options under the vegetation management framework
A	red	Compliance areas, environmental offset areas and voluntary declaration areas	Special conditions apply to Category A areas. Before clearing, contact the Department of Resources to confirm any requirements in a Category A area.
B	dark blue	Remnant vegetation areas	Exempt clearing work, or notification and compliance with accepted development vegetation clearing codes, area management plans or development approval.
C	light blue	High-value regrowth areas	Exempt clearing work, or notification and compliance with managing Category C regrowth vegetation accepted development vegetation clearing code.
R	yellow	Regrowth within 50m of a watercourse or drainage feature in the Great Barrier Reef catchment areas	Exempt clearing work, or notification and compliance with managing Category R regrowth accepted development vegetation clearing code or area management plans.
X	white	Clearing on freehold land, indigenous land and leasehold land for agriculture and grazing purposes is considered exempt clearing work under the vegetation management framework. Contact the Department of Resources to clarify whether a development approval is required for other State land tenures.	No permit or notification required on freehold land, indigenous land and leasehold land for agriculture and grazing. A development approval may be required for some State land tenures.

Property Map of Assessable Vegetation (PMAV)

The following Property Map of Assessable Vegetation (PMAVs) may be present on this property:

Reference number

2012/004185

2009/004329

3.2 Regional ecosystems

The endangered, of concern and least concern regional ecosystems on your property are shown on the vegetation management supporting map in section 4.2 and are listed in Table 5.

A description of regional ecosystems can be accessed online at

<https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/descriptions/>

Table 5: Regional ecosystems present on subject property

Regional Ecosystem	VMA Status	Category	Area (Ha)	Short Description	Structure Category
11.1.2	Least concern	B	0.90	Samphire forbland on marine clay plains	Very sparse
11.11.16	Of concern	C	2.33	Eucalyptus cambageana, Acacia harpophylla open forest to woodland on old sedimentary rocks with varying degrees of metamorphism and folding. Lowlands	Mid-dense
11.11.16	Of concern	R	less than 0.01	Eucalyptus cambageana, Acacia harpophylla open forest to woodland on old sedimentary rocks with varying degrees of metamorphism and folding. Lowlands	Mid-dense
11.3.1	Endangered	C	0.15	Acacia harpophylla and/or Casuarina cristata open forest on alluvial plains	Mid-dense
11.3.1	Endangered	R	less than 0.01	Acacia harpophylla and/or Casuarina cristata open forest on alluvial plains	Mid-dense
11.3.2	Of concern	C	5.57	Eucalyptus populnea woodland on alluvial plains	Sparse
11.3.2	Of concern	R	0.02	Eucalyptus populnea woodland on alluvial plains	Sparse
11.3.25	Least concern	C	0.15	Eucalyptus tereticornis or E. camaldulensis woodland fringing drainage lines	Sparse
11.3.25	Least concern	R	less than 0.01	Eucalyptus tereticornis or E. camaldulensis woodland fringing drainage lines	Sparse
11.3.26	Least concern	C	0.29	Eucalyptus moluccana or E. microcarpa woodland to open forest on margins of alluvial plains	Sparse
11.3.26	Least concern	R	less than 0.01	Eucalyptus moluccana or E. microcarpa woodland to open forest on margins of alluvial plains	Sparse
11.3.4	Of concern	C	3.72	Eucalyptus tereticornis and/or Eucalyptus spp. woodland on alluvial plains	Sparse
11.3.4	Of concern	R	0.01	Eucalyptus tereticornis and/or Eucalyptus spp. woodland on alluvial plains	Sparse
non-rem	None	X	92.39	None	None

Please note:

1. All area and area derived figures included in this table have been calculated via reprojecting relevant spatial features to Albers equal-area conic projection (central meridian = 146, datum Geocentric Datum of Australia 1994). As a result, area figures may differ slightly if calculated for the same features using a different co-ordinate system.
2. If Table 5 contains a Category 'plant', please be aware that this refers to 'plantations' such as forestry, and these areas are considered non-remnant under the VMA.

The VMA status of the regional ecosystem (whether it is endangered, of concern or least concern) also determines if any of the following are applicable:

- exempt clearing work;
- accepted development vegetation clearing codes;
- performance outcomes in State Code 16 of the State Development Assessment Provisions (SDAP).

3.3 Watercourses

Vegetation management watercourses and drainage features for this property are shown on the vegetation management supporting map in section 4.2.

3.4 Wetlands

There are no vegetation management wetlands present on this property.

3.5 Essential habitat

Under the VMA, essential habitat for protected wildlife is native wildlife prescribed under the *Nature Conservation Act 1992* (NCA) as critically endangered, endangered, vulnerable or near-threatened wildlife.

Essential habitat for protected wildlife includes suitable habitat on the lot, or where a species has been known to occur up to 1.1 kilometres from a lot on which there is assessable vegetation. These important habitat areas are protected under the VMA.

Any essential habitat on this property will be shown as blue hatching on the vegetation supporting map in section 4.2.

If essential habitat is identified on the lot, information about the protected wildlife species is provided in Table 6 below. The numeric labels on the vegetation management supporting map can be cross referenced with Table 6 to outline the essential habitat factors for that particular species. There may be essential habitat for more than one species on each lot, and areas of Category A, Category B and Category C can be mapped as Essential Habitat.

Essential habitat is compiled from a combination of species habitat models and buffered species records. Regional ecosystem is a mandatory essential habitat factor, unless otherwise stated. Essential habitat, for protected wildlife, means an area of vegetation shown on the Regulated Vegetation Management Map -

- 1) that has at least 3 essential habitat factors for the protected wildlife that must include any essential habitat factors that are stated as mandatory for the protected wildlife in the essential habitat database. Essential habitat factors are comprised of - regional ecosystem (mandatory for most species), vegetation community, altitude, soils, position in landscape; or
- 2) in which the protected wildlife, at any stage of its life cycle, is located.

If there is no essential habitat mapping shown on the vegetation management supporting map for this lot, and there is no table in the sections below, it confirms that there is no essential habitat on the lot.

Category A and/or Category B and/or Category C

Table 6: Essential habitat in Category A and/or Category B and/or Category C

Label	Scientific Name	Common Name	NCA Status	Vegetation Community	Altitude	Soils	Position in Landscape
1785	Geophaps scripta scripta	squatter pigeon (southern subspecies)	V	Dry eucalypt woodland (including poplar box, spotted gum, yellow box, acacia and callitris), with sparse short grass, often on sandy areas near to permanent water; grassy eucalypt woodlands. Nest on ground near or under grass tussock, log or low bush.	None	None	Gravelly ridges, traprock and river flats.
1878	Calidris ferruginea	curlew sandpiper	CE	Foraging on intertidal mudflat in sheltered estuaries, bays, inlets and lagoons; non-tidal swamps and inland ephemeral and permanent lakes, dams or waterholes. Roost on shingle/sand/shell beaches, saltmarsh, mangrove and close to wetlands.	Sea level to 100m.	Sand and mud substrates.	Associated with coastlines and coastal and inland wetlands.
7667	Macropteranth es leiocaulis	None	NT	deciduous vine thicket; semi-evergreen vine thicket; brigalow-semi-evergreen vine thicket; softwood scrub; Araucarian microphyll or simple microphyll vine forest; brigalow/belah scrub	0 to 400 m	duplex soil with sandy clay loam surface or loam to clay loam or heavy clay soil	gentle to steep hill slope, steep ridge line, plain, alluvial flat, watercourse

Label	Scientific Name	Common Name	NCA Status	Vegetation Community	Altitude	Soils	Position in Landscape
22459	Ephianura crocea macgregori	yellow chat (Dawson)	E	Swampy grassland (salt couch Sporobolus virginicus, water couch, reeds Schoenoplectus littoralis) and saline herbland (samphire Halosarcia) on marine plain with a network of braided drainage lines.	Sea level to 100m.	None	Marine plains.

Label	Regional Ecosystem (mandatory unless otherwise specified)
1785	8.2.1, 8.2.7, 8.2.8, 8.2.12, 8.3.2, 8.3.3, 8.3.5, 8.3.6, 8.3.13, 8.5.2, 8.5.3, 8.5.5, 8.5.6, 8.9.1, 8.11.1, 8.11.3, 8.11.4, 8.11.5, 8.11.6, 8.11.8, 8.12.6, 8.12.7, 8.12.9, 8.12.12, 8.12.14, 8.12.20, 8.12.22, 8.12.23, 8.12.25, 9.3.1, 9.3.2, 9.3.3, 9.3.4, 9.3.5, 9.3.6, 9.3.7, 9.3.8, 9.3.9, 9.3.11, 9.3.13, 9.3.14, 9.3.15, 9.3.16, 9.3.17, 9.3.18, 9.3.19, 9.3.20, 9.3.21, 9.3.22, 9.3.23, 9.4.1, 9.4.2, 9.4.3, 9.5.3, 9.5.4, 9.5.5, 9.5.6, 9.5.7, 9.5.8, 9.5.9, 9.5.10, 9.5.11, 9.5.12, 9.5.16, 9.7.1, 9.7.2, 9.7.3, 9.7.5, 9.7.6, 9.8.1, 9.8.2, 9.8.4, 9.8.5, 9.8.6, 9.8.9, 9.8.10, 9.8.11, 9.10.1, 9.10.3, 9.10.6, 9.10.7, 9.10.8, 9.11.1, 9.11.2, 9.11.3, 9.11.4, 9.11.5, 9.11.7, 9.11.10, 9.11.11, 9.11.12, 9.11.13, 9.11.15, 9.11.16, 9.11.17, 9.11.18, 9.11.19, 9.11.23, 9.11.26, 9.11.28, 9.11.29, 9.11.31, 9.11.32, 9.12.1, 9.12.3, 9.12.4, 9.12.5, 9.12.6, 9.12.7, 9.12.10, 9.12.11, 9.12.12, 9.12.13, 9.12.16, 9.12.17, 9.12.18, 9.12.19, 9.12.20, 9.12.21, 9.12.22, 9.12.23, 9.12.24, 9.12.26, 9.12.28, 9.12.30, 9.12.31, 9.12.33, 9.12.35, 9.12.37, 9.12.39, 10.3.1, 10.3.2, 10.3.3, 10.3.4, 10.3.5, 10.3.6, 10.3.9, 10.3.10, 10.3.11, 10.3.12, 10.3.13, 10.3.14, 10.3.15, 10.3.19, 10.3.20, 10.3.27, 10.3.28, 10.3.30, 10.3.31, 10.4.3, 10.5.1, 10.5.2, 10.5.4, 10.5.5, 10.5.7, 10.5.9, 10.5.10, 10.5.11, 10.5.12, 10.7.2, 10.7.3, 10.7.5, 10.7.11, 10.7.12, 10.9.1, 10.9.2, 10.9.3, 10.9.5, 10.10.1, 10.10.3, 10.10.4, 10.10.5, 10.10.7, 11.2.1, 11.2.5, 11.3.1, 11.3.2, 11.3.3, 11.3.4, 11.3.6, 11.3.7, 11.3.8, 11.3.9, 11.3.10, 11.3.12, 11.3.13, 11.3.14, 11.3.15, 11.3.16, 11.3.17, 11.3.18, 11.3.19, 11.3.23, 11.3.25, 11.3.27, 11.3.28, 11.3.29, 11.3.30, 11.3.35, 11.3.36, 11.3.37, 11.3.38, 11.3.39, 11.4.2, 11.4.3, 11.4.5, 11.4.8, 11.4.10, 11.4.12, 11.4.13, 11.5.1, 11.5.2, 11.5.3, 11.5.4, 11.5.5, 11.5.8, 11.5.9, 11.5.12, 11.5.13, 11.5.14, 11.5.17, 11.5.20, 11.5.21, 11.7.1, 11.7.2, 11.7.4, 11.7.6, 11.8.2, 11.8.4, 11.8.5, 11.8.8, 11.8.9, 11.8.11, 11.8.12, 11.8.14, 11.8.15, 11.9.2, 11.9.3, 11.9.7, 11.9.9, 11.9.14, 11.10.1, 11.10.4, 11.10.6, 11.10.7, 11.10.11, 11.10.12, 11.10.13, 11.11.1, 11.11.3, 11.11.4, 11.11.6, 11.11.7, 11.11.8, 11.11.9, 11.11.10, 11.11.11, 11.11.15, 11.11.16, 11.11.19, 11.11.20, 11.12.1, 11.12.2, 11.12.3, 11.12.5, 11.12.6, 11.12.7, 11.12.8, 11.12.9, 11.12.10, 11.12.11, 11.12.12, 11.12.13, 11.12.14, 11.12.17, 11.12.20, 12.2.5, 12.2.6, 12.2.7, 12.2.10, 12.2.11, 12.3.3, 12.3.6, 12.3.10, 12.3.12, 12.3.14, 12.3.18, 12.3.19, 12.5.1, 12.5.2, 12.5.4, 12.5.5, 12.5.7, 12.5.8, 12.5.11, 12.5.12, 12.7.1, 12.7.2, 12.8.14, 12.8.16, 12.8.17, 12.8.19, 12.9-10.5, 12.9-10.7, 12.9-10.8, 12.9-10.12, 12.9-10.13, 12.9-10.25, 12.9-10.26, 12.9-10.28, 12.11.5, 12.11.7, 12.11.8, 12.11.14, 12.11.15, 12.11.20, 12.11.21, 12.11.22, 12.11.24, 12.11.25, 12.11.26, 12.11.27, 12.11.28, 12.12.7, 12.12.8, 12.12.9, 12.12.12, 12.12.14, 12.12.21, 12.12.22, 12.12.23, 12.12.24, 12.12.25, 12.12.27, 13.3.1, 13.3.4, 13.3.7, 13.11.1, 13.11.3, 13.11.4, 13.11.8, 13.12.2, 13.12.3, 13.12.5, 13.12.8, 13.12.9, 13.12.10
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7667	11.3.1, 11.3.11, 11.4.1, 11.5.15, 11.11.5, 11.11.14, 11.11.18, 11.12.4, 12.11.4, 12.11.12, 12.12.13
22459	8.1.2, 8.1.3, 8.1.4, 8.3.4, 11.1.1, 11.1.2, 11.1.3, 11.3.24, 11.3.27, 12.1.2

3.6 Area Management Plan(s)

Nil

3.7 Coastal or non-coastal

For the purposes of the accepted development vegetation clearing codes and State Code 16 of the State Development Assessment Provisions (SDAP), this property is regarded as*

Coastal

*See also Map 4.3

3.8 Agricultural Land Class A or B

The following can be used to identify Agricultural Land Class A or B areas under the "Managing regulated regrowth vegetation" accepted development vegetation clearing code:

Does this lot contain land that is mapped as Agricultural Land Class A or B in the State Planning Interactive Mapping System?

No Class A

No Class B

Note - This confirms Agricultural Land Classes as per the State Planning Interactive Mapping System only. This response does not include Agricultural Land Classes identified under local government planning schemes. For further information, check the Planning Scheme for your local government area.

See Map 4.4 to identify the location and extent of Class A and/or Class B Agricultural land on Lot: 84 Plan: DS185.

4. Vegetation management framework maps

Vegetation management maps included in this report may also be requested individually at:

<https://www.resources.qld.gov.au/qld/environment/land/vegetation/vegetation-map-request-form>

Regulated vegetation management map

The regulated vegetation management map shows vegetation categories needed to determine clearing requirements. These maps are updated monthly to show new [property maps of assessable vegetation \(PMAV\)](#).

Vegetation management supporting map

The vegetation management supporting map provides information on regional ecosystems, wetlands, watercourses and essential habitat.

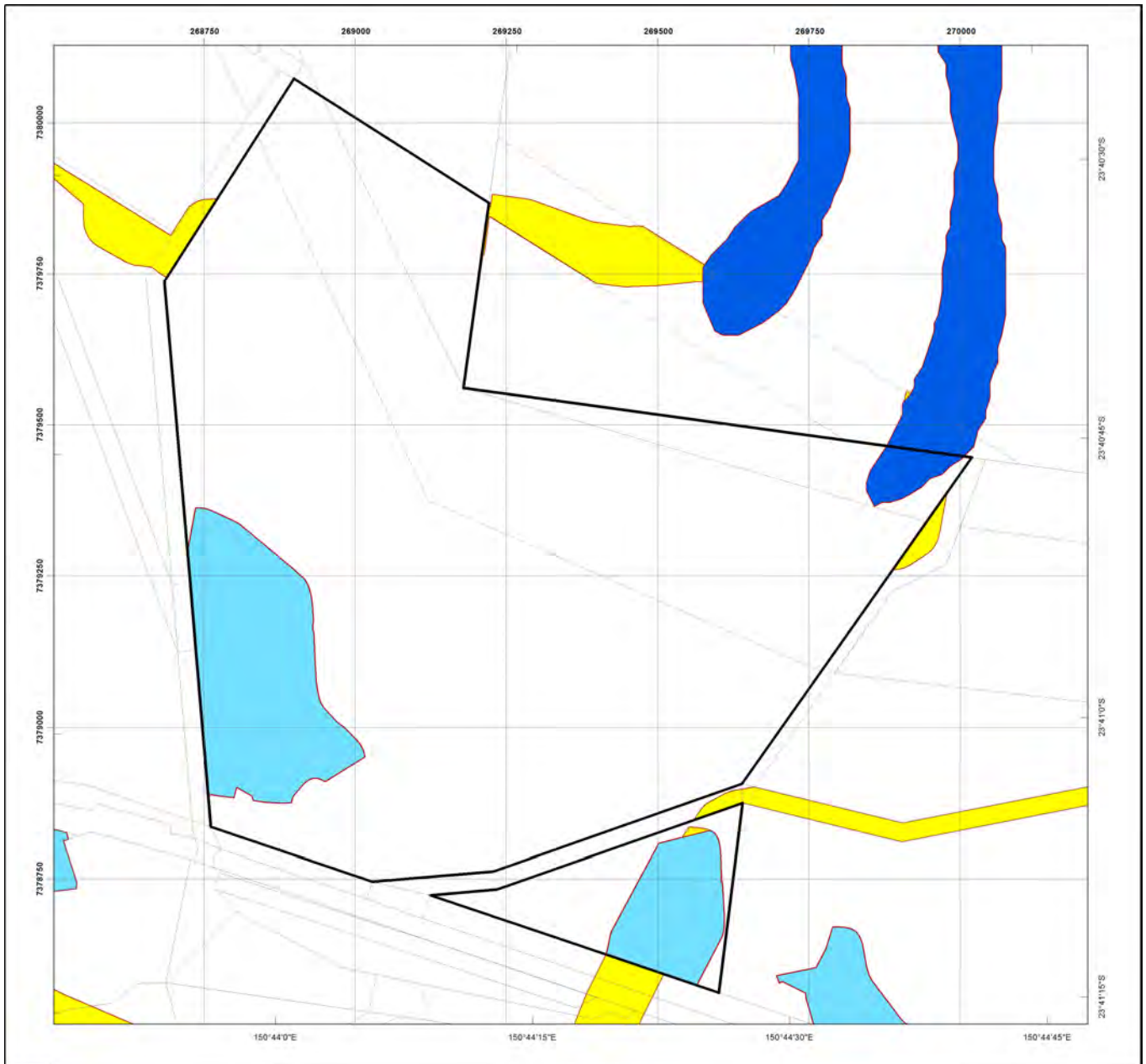
Coastal/non-coastal map

The coastal/non-coastal map confirms whether the lot, or which parts of the lot, are considered coastal or non-coastal for the purposes of the accepted development vegetation clearing codes and State Code 16 of the State Development Assessment Provisions (SDAP).

Agricultural Land Class A or B as per State Planning Policy: State Interest for Agriculture










The Agricultural Land Class map confirms the location and extent of land mapped as Agricultural Land Classes A or B as identified on the State Planning Interactive Mapping System. Please note that this map does not include areas identified as Agricultural Land Class A or B in local government planning schemes. This map can be used to identify Agricultural Land Class A or B areas under the "Managing regulated regrowth vegetation" accepted development vegetation clearing code.

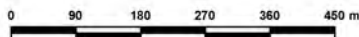
4.1 Regulated vegetation management map



Regulated Vegetation Management Map

Legend

-  Selected Lot and Plan
-  Category A area (Vegetation offsets/compliance notices/VDecs)
-  Category B area (Remnant vegetation)
-  Category C area (High-value regrowth vegetation)
-  Category R area (Reef regrowth watercourse vegetation)
-  Category X area (Exempt clearing work on Freehold, Indigenous and Leasehold land)
-  Water
-  Area not categorised
-  Other land parcel boundaries



This product is projected into:
GDA 1994 MGA Zone 56

Disclaimer:

While every care is taken to ensure the accuracy of this product, the Department of Resources makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you might incur as a result of the product being inaccurate or incomplete in any way and for any reason.

Additional information required for the assessment of vegetation values is provided in the accompanying "Vegetation Management Supporting map". For further information go to the web site: www.resources.qld.gov.au or contact the Department of Resources.

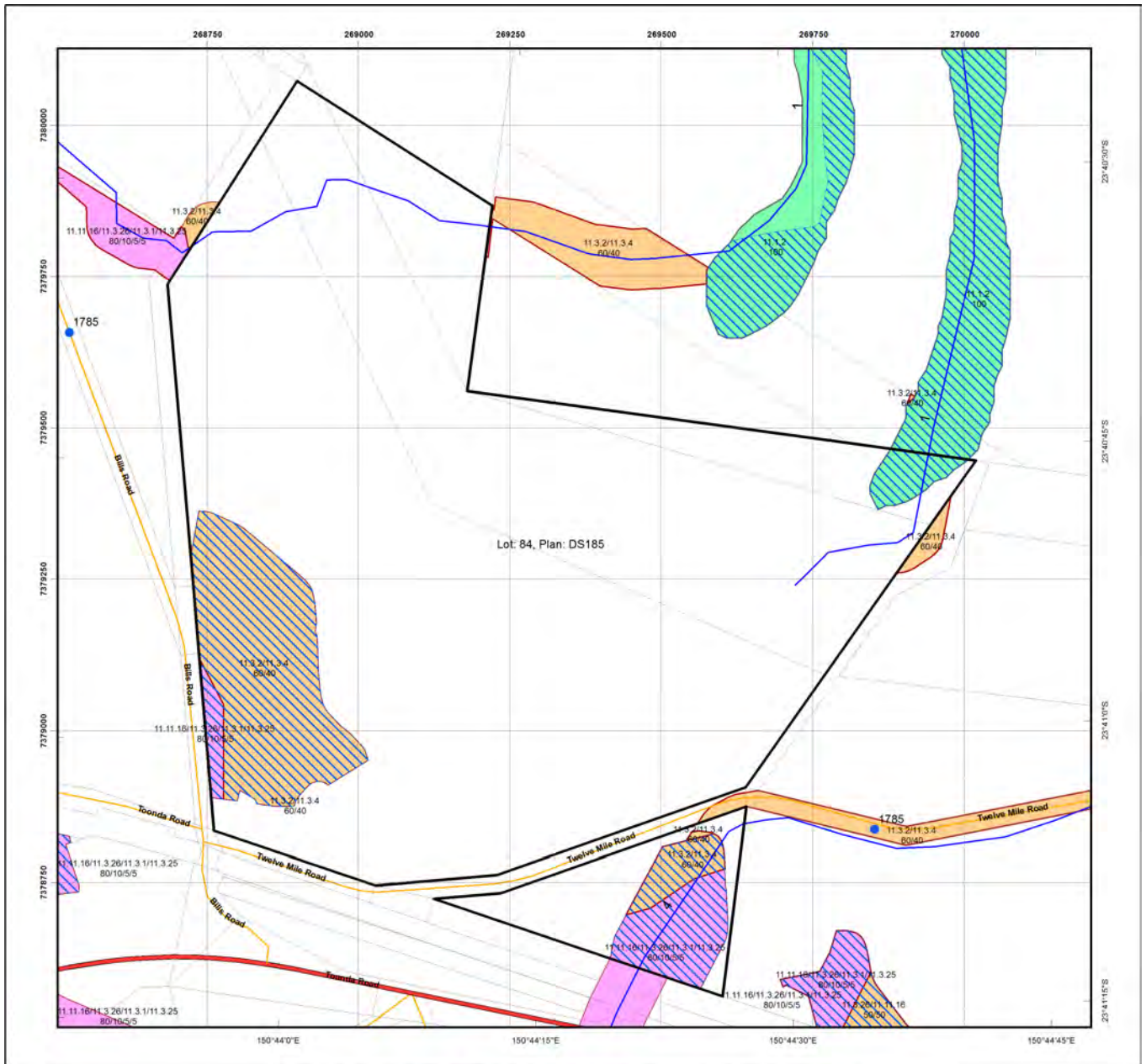
Digital data for the regulated vegetation management map is available from the Queensland Spatial Portal at <http://www.information.qld.gov.au/>

Land parcel boundaries are provided as locational aid only.

This map is updated on a monthly basis to ensure new PMAVs are included as they are approved.



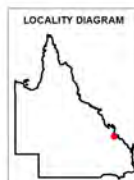
4.2 Vegetation management supporting map



Vegetation Management Supporting Map

Legend

- Selected Lot and Plan
- Category A or B area containing endangered regional ecosystems
- Category A or B area containing of concern regional ecosystems
- Category A or B area that is a least concern regional ecosystem
- Category C or R area containing endangered regional ecosystems
- Category C or R area containing of concern regional ecosystems
- Category C or R area that is a least concern regional ecosystem
- Category X area
- Water
- Wetland on the vegetation management wetlands map
- Essential habitat on the essential habitat map
- Essential habitat species record
- Watercourses and drainage features on the vegetation management watercourse and drainage features map (Stream order shown as black number against stream where available)
- Highway
- Connector
- Street/Local Road
- National Parks, State Forest and other reserves
- Other land parcel boundaries



0 60 120 180 240 300 m

This product is projected into:
GDA 1994 MGA Zone 56

Labels for Essential Habitat are centred on the area of enquiry.

Regional ecosystem linework has been compiled at a scale of 1:100 000, except in designated areas where a compilation scale of 1:50 000 is available. Linework should be used as a guide only. The positional accuracy of RE data mapped at a scale of 1:100 000 is +/- 100 metres.

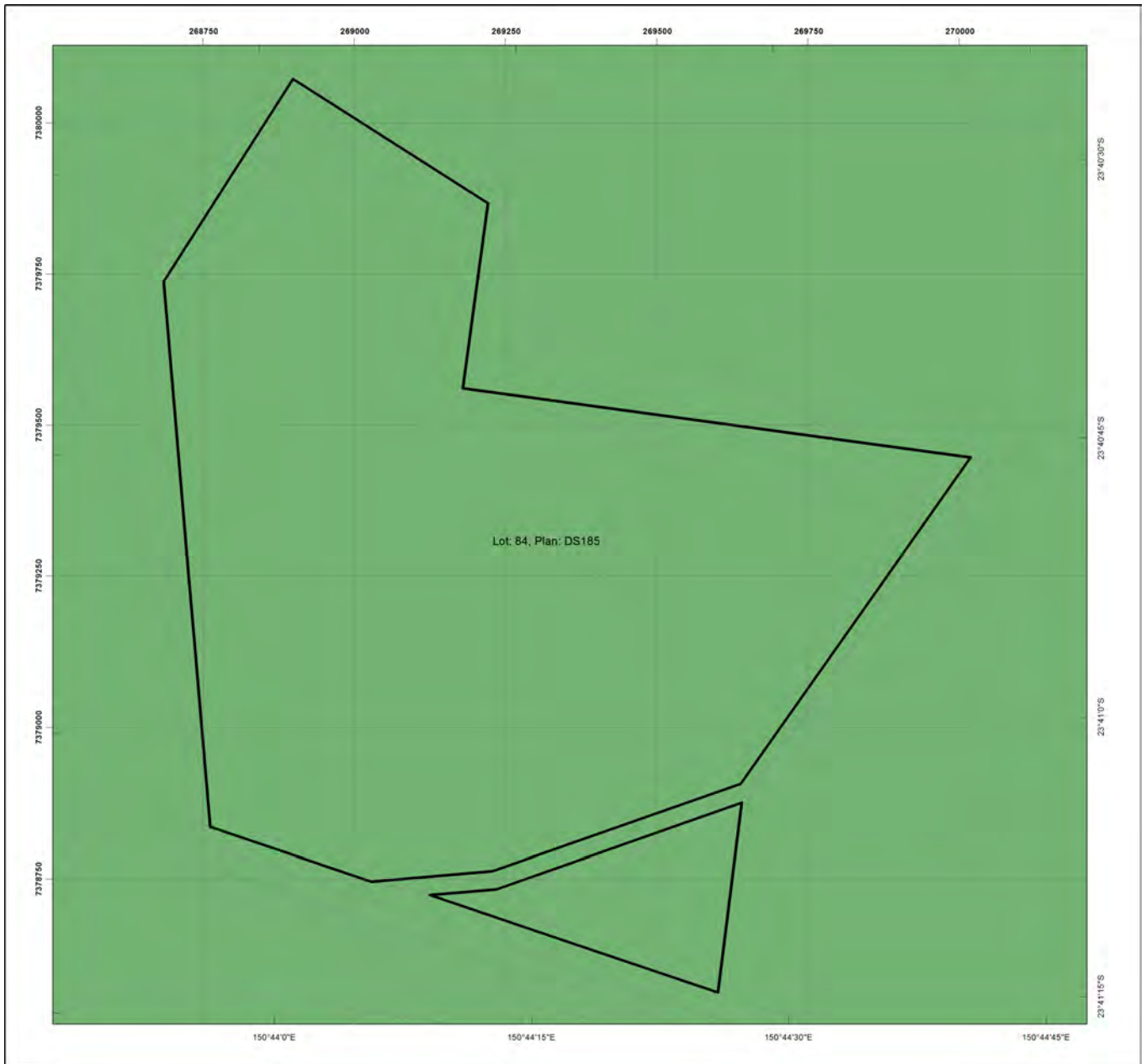
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Additional information may be required for the purposes of land clearing or assessment of a regional ecosystem map or PMAV applications. For further information go to the web site: www.resources.qld.gov.au or contact the Department of Resources.

Digital data for the vegetation management watercourse and drainage feature map, vegetation management wetlands map, essential habitat map and the vegetation management remnant and regional ecosystem map are available from the Queensland Spatial Portal at <http://www.information.qld.gov.au/>





Land parcel boundaries are provided as locational aid only.

4.3 Coastal/non-coastal map



Coastal/Non Coastal Map

Legend

-  Selected Lot and Plan
-  Coastal
-  Non Coastal
-  Other land parcel boundaries



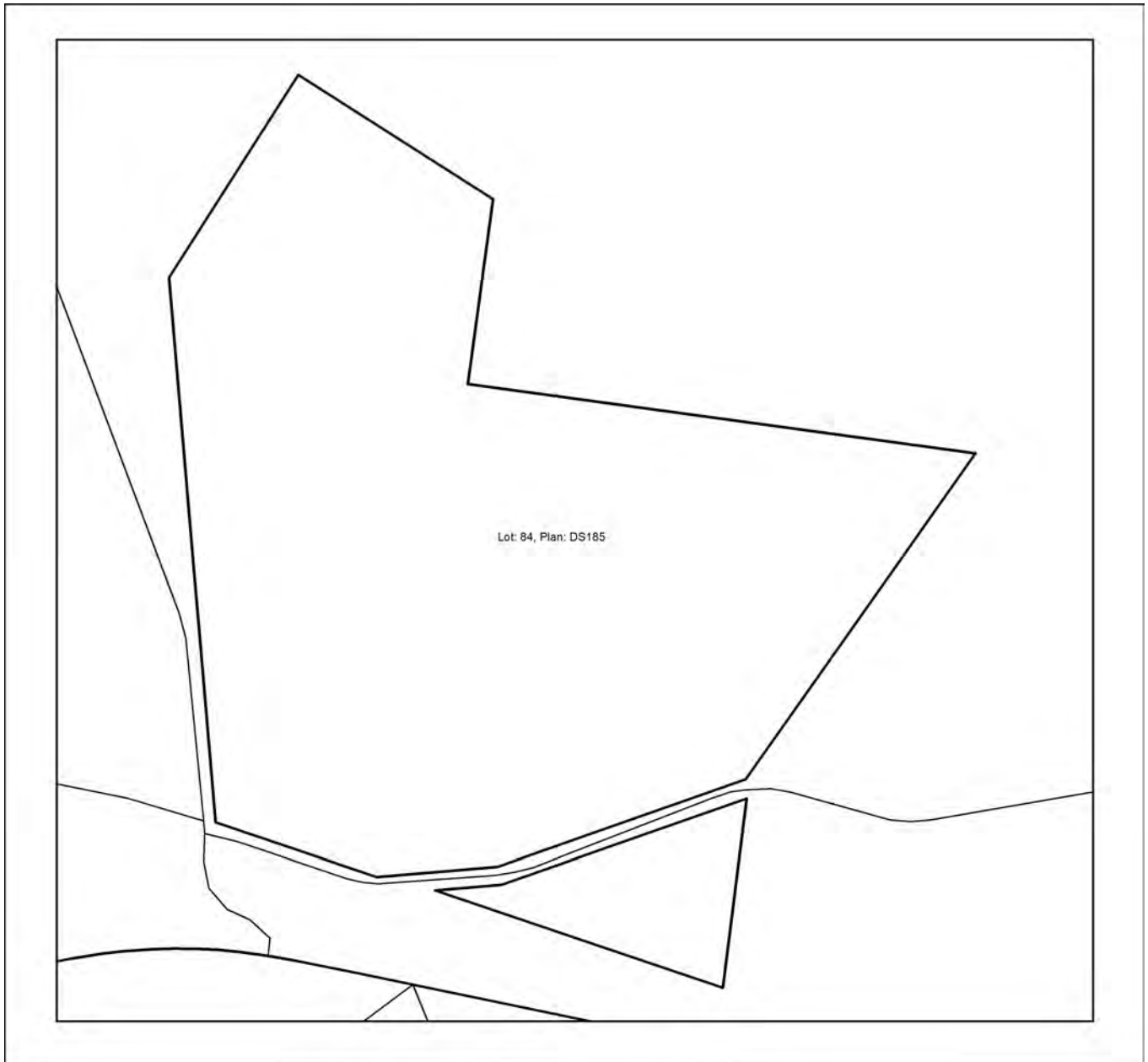
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









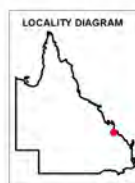
4.4 Agricultural Land Class A or B as per State Planning Policy: State Interest for Agriculture



Agricultural Land Class A or B as per State Planning Policy: State Interest for Agriculture

Legend

-  Selected Lot and Plan
-  Towns
-  Rivers and creeks
-  Freeways / motorways; Highways
-  Secondary roads; Streets
- Agricultural land class A or B
-  A
-  B
-  Not class A or B



This product is projected into GDA 1994 MGA Zone 56

Disclaimer

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5. Protected plants framework (administered by the Department of Environment and Science (DES))

In Queensland, all plants that are native to Australia are protected plants under the [Nature Conservation Act 1992](#) (NCA). The NCA regulates the clearing of protected plants 'in the wild' (see [Operational policy: When a protected plant in Queensland is considered to be 'in the wild'](#)) that are listed as critically endangered, endangered, vulnerable or near threatened under the Act.

Please note that the protected plant clearing framework applies irrespective of the classification of the vegetation under the *Vegetation Management Act 1999* and any approval or exemptions given under another Act, for example, the *Vegetation Management Act 1999* or *Planning Regulation 2017*.

5.1 Clearing in high risk areas on the flora survey trigger map

The flora survey trigger map identifies high-risk areas for endangered, vulnerable or near threatened (EVNT) plants. These are areas where EVNT plants are known to exist or are likely to exist based on the habitat present. The flora survey trigger map for this property is provided in section 5.5.

If you are proposing to clear an area shown as high risk on the flora survey trigger map, a flora survey of the clearing impact area must be undertaken by a suitably qualified person in accordance with the [Flora survey guidelines](#). The main objective of a flora survey is to locate any EVNT plants that may be present in the clearing impact area.

If the flora survey identifies that EVNT plants are not present within the clearing impact area or clearing within 100m of EVNT plants can be avoided, the clearing activity is exempt from a permit. An [exempt clearing notification form](#) must be submitted to the Department of Environment and Science, with a copy of the flora survey report, at least one week prior to clearing.

If the flora survey identifies that EVNT plants are present in, or within 100m of, the area to be cleared, a clearing permit is required before any clearing is undertaken. The flora survey report, as well as an impact management report, must be submitted with the [clearing permit application form](#).

5.2 Clearing outside high risk areas on the flora survey trigger map

In an area other than a high risk area, a clearing permit is only required where a person is, or becomes aware that EVNT plants are present in, or within 100m of, the area to be cleared. You must keep a copy of the flora survey trigger map for the area subject to clearing for five years from the day the clearing starts. If you do not clear within the 12 month period that the flora survey trigger map was printed, you need to print and check a new flora survey trigger map.

5.3 Exemptions

Many activities are 'exempt' under the protected plant clearing framework, which means that clearing of native plants that are in the wild can be undertaken for these activities with no need for a flora survey or a protected plant clearing permit. The Information sheet - General exemptions for the take of protected plants provides some of these exemptions.

Some exemptions under the NCA are the same as exempt clearing work (formerly known as exemptions) under the *Vegetation Management Act 1999* (i.e. listed in Schedule 21 of the Planning Regulations 2017) while some are different.

5.4 Contact information for DES

For further information on the protected plants framework:

Phone 1300 130 372 (and select option four)

Email palm@des.qld.gov.au

Visit <https://www.qld.gov.au/environment/plants-animals/plants/protected-plants>

5.5 Protected plants flora survey trigger map

This map included may also be requested individually at: <https://apps.des.qld.gov.au/map-request/flora-survey-trigger/>.

Updates to the data informing the flora survey trigger map

The flora survey trigger map will be reviewed, and updated if necessary, at least every 12 months to ensure the map reflects the most up-to-date and accurate data available.






Species information

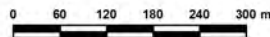
Please note that flora survey trigger maps do not identify species associated with 'high risk areas'. While some species information may be publicly available, for example via the [Queensland Spatial Catalogue](#), the Department of Environment and Science does not provide species information on request. Regardless of whether species information is available for a particular high risk area, clearing plants in a high risk area may require a flora survey and/or clearing permit. Please see the Department of Environment and Science webpage on the [clearing of protected plants](#) for more information.



Protected Plants Flora Survey Trigger Map

Legend

-  Selected Lot and Plan
-  High risk area
-  Other land parcel boundaries
-  Freeways / motorways / highways
-  Secondary roads / streets



This product is projected into:
GDA 1994 MGA Zone 56

This map shows areas where particular provisions of the Nature Conservation Act 1992 apply to the clearing of protected plants.

Land parcel boundaries are provided as locational aid only.

This map is produced at a scale relevant to the size of the area selected and should be printed as A4 size in portrait orientation.

For further information or assistance with interpretation of this product, please contact the Department of Environment and Science at palm@des.qld.gov.au

Disclaimer:
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6. Koala protection framework (administered by the Department of Environment and Science (DES))

The koala (*Phascolarctos cinereus*) is listed in Queensland as vulnerable by the Queensland Government under *Nature Conservation Act 1992* and by the Australian Government under the *Environment Protection and Biodiversity Conservation Act 1999*.

The Queensland Government's koala protection framework is comprised of the *Nature Conservation Act 1992*, the Nature Conservation (Animals) Regulation 2020, the Nature Conservation (Koala) Conservation Plan 2017, the *Planning Act 2016* and the Planning Regulation 2017.

6.1 Koala mapping

6.1.1 Koala districts

The parts of Queensland where koalas are known to occur has been divided into three koala districts - koala district A, koala district B and koala district C. Each koala district is made up of areas with comparable koala populations (e.g. density, extent and significance of threatening processes affecting the population) which require similar management regimes.

Section 7.1 identifies which koala district your property is located in.

6.1.2 Koala habitat areas

Koala habitat areas are areas of vegetation that have been determined to contain koala habitat that is essential for the conservation of a viable koala population in the wild based on the combination of habitat suitability and biophysical variables with known relationships to koala habitat (e.g. landcover, soil, terrain, climate and ground water). In order to protect this important koala habitat, clearing controls have been introduced into the Planning Regulation 2017 for development in koala habitat areas.

Please note that koala habitat areas only exist in koala district A which is the South East Queensland "Shaping SEQ" Regional Plan area. These areas include the local government areas of Brisbane, Gold Coast, Logan, Lockyer Valley, Ipswich, Moreton Bay, Noosa, Redland, Scenic Rim, Somerset, Sunshine Coast and Toowoomba (urban extent).

There are two different categories of koala habitat area (core koala habitat area and locally refined koala habitat), which have been determined using two different methodologies. These methodologies are described in the document [Spatial modelling in South East Queensland](#).

Section 7.2 shows any koala habitat area that exists on your property.

Under the Nature Conservation (Koala) Conservation Plan 2017, an owner of land (or a person acting on the owner's behalf with written consent) can request to make, amend or revoke a koala habitat area determination if they believe, on reasonable grounds, that the existing determination for all or part of their property is incorrect.

More information on requests to make, amend or revoke a koala habitat area determination can be found in the document [Guideline - Requests to make, amend or revoke a koala habitat area determination](#).

The koala habitat area map will be updated at least annually to include any koala habitat areas that have been made, amended or revoked.

Changes to the koala habitat area map which occur between annual updates because of a request to make, amend or revoke a koala habitat area determination can be viewed on the register of approved requests to make, amend or revoke a koala habitat area available at: <https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping/koalamaps>. The register includes the lot on plan for the change, the date the decision was made and the map issued to the landholder that shows areas determined to be koala habitat areas.

6.1.3 Koala priority areas

Koala priority areas are large, connected areas that have been determined to have the highest likelihood of achieving conservation outcomes for koalas based on the combination of habitat suitability, biophysical variables with known relationships to koala habitat (e.g. landcover, soil, terrain, climate and ground water) and a koala conservation cost benefit analysis.

Conservation efforts will be prioritised in these areas to ensure the conservation of viable koala populations in the wild including a focus on management (e.g. habitat protection, habitat restoration and threat mitigation) and monitoring. This includes a prohibition on clearing in koala habitat areas that are in koala priority areas under the Planning Regulation 2017 (subject to some exemptions).

Please note that koala priority areas only exist in koala district A which is the South East Queensland "Shaping SEQ" Regional Plan area. These areas include the local government areas of Brisbane, Gold Coast, Logan, Lockyer Valley,

Ipswich, Moreton Bay, Noosa, Redland, Scenic Rim, Somerset, Sunshine Coast and Toowoomba (urban extent).

Section 7.2 identifies if your property is in a koala priority area.

6.1.4 Identified koala broad-hectare areas

There are seven identified koala broad-hectare areas in SEQ. These are areas of koala habitat that are located in areas committed to meet development targets in the SEQ Regional Plan to accommodate SEQ's growing population including bring-forward Greenfield sites under the Queensland Housing Affordability Strategy and declared master planned areas under the repealed *Sustainable Planning Act 2009* and the repealed *Integrated Planning Act 1997*.

Specific assessment benchmarks apply to development applications for development proposed in identified koala broad-hectare areas to ensure koala conservation measures are incorporated into the proposed development.

Section 7.2 identifies if your property is in an identified koala broad-hectare area.

6.2 Koala habitat planning controls

On 7 February 2020, the Queensland Government introduced new planning controls to the Planning Regulation 2017 to strengthen the protection of koala habitat in South East Queensland (i.e. koala district A).

More information on these planning controls can be found here:

<https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping/legislation-policy>.

As a high-level summary, the koala habitat planning controls make:

- development that involves interfering with koala habitat (defined below) in an area that is both a koala priority area and a koala habitat area, prohibited development (i.e. development for which a development application cannot be made);
- development that involves interfering with koala habitat (defined below) in an area that is a koala habitat area but is not a koala priority area, assessable development (i.e. development for which development approval is required); and
- development that is for extractive industries where the development involves interfering with koala habitat (defined below) in an area that is both a koala habitat area and a key resource area, assessable development (i.e. development for which development approval is required).

Interfering with koala habitat means:

- 1) Removing, cutting down, ringbarking, pushing over, poisoning or destroying in anyway, including by burning, flooding or draining native vegetation in a koala habitat area; but
- 2) Does not include destroying standing vegetation by stock or lopping a tree.

However, these planning controls do not apply if the development is exempted development as defined in Schedule 24 of the [Planning Regulation 2017](#). More information on exempted development can be found here:

<https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping/legislation-policy>.

There are also assessment benchmarks that apply to development applications for:

- building works, operational works, material change of use or reconfiguration of a lot where:
 - the local government planning scheme makes the development assessable;
 - the premises includes an area that is both a koala priority area and a koala habitat area; and
 - the development does not involve interfering with koala habitat (defined above); and
- development in identified koala broad-hectare areas.

The [Guideline - Assessment Benchmarks in relation to Koala Habitat in South East Queensland assessment benchmarks](#) outlines these assessment benchmarks, the intent of these assessment benchmarks and advice on how proposed development may meet these assessment benchmarks.

6.3 Koala Conservation Plan clearing requirements

Section 10 and 11 of the [Nature Conservation \(Koala\) Conservation Plan 2017](#) prescribes requirements that must be met when clearing koala habitat in koala district A and koala district B.

These clearing requirements are independent to the koala habitat planning controls introduced into the Planning Regulation 2017, which means they must be complied with irrespective of any approvals or exemptions offered under other legislation.

Unlike the clearing controls prescribed in the Planning Regulation 2017 that are to protect koala habitat, the clearing requirements prescribed in the Nature Conservation (Koala) Conservation Plan 2017 are in place to prevent the injury or death of koalas when koala habitat is being cleared.

6.4 Contact information for DES

For further information on the koala protection framework:

Phone 13 QGOV (13 74 68)

Email koala.assessment@des.qld.gov.au

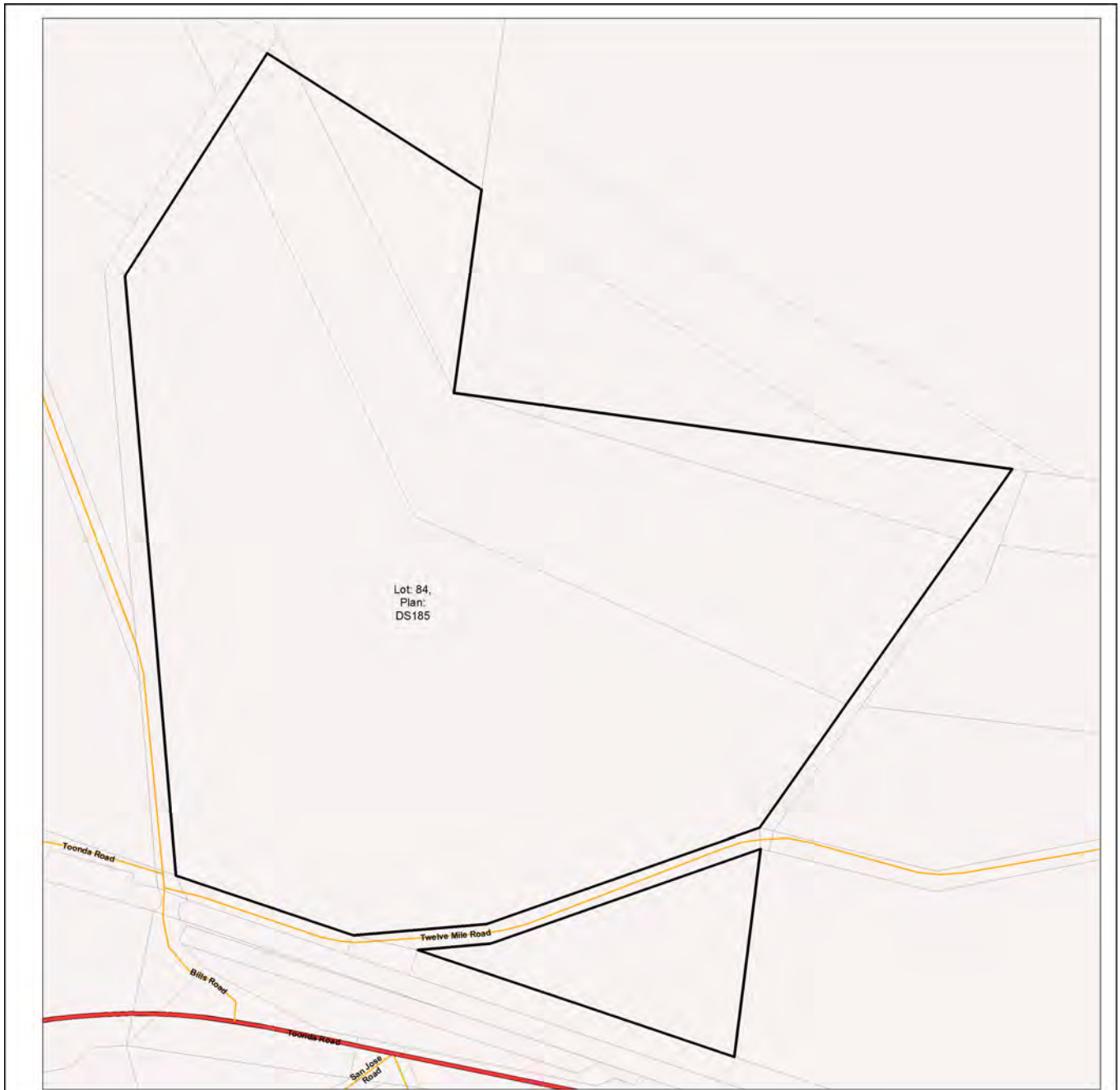
Visit <https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping>

7. Koala protection framework details for Lot: 84 Plan: DS185

7.1 Koala districts

Koala District C

7.2 Koala priority area, koala habitat area and identified koala broad-hectare area map



Koala priority area, koala habitat area and identified koala broad-hectare area map

Legend

- Selected Lot and Plan
- Koala habitat area (core)
- Koala habitat area (locally refined)
- Koala priority area
- Identified koala broad-hectare area
- Cadastral Boundaries
- Towns
- Highway
- Connector
- Street/Local Road
- Major rivers/creeks
- Queensland

The koala habitat mapping within South East Queensland uses regional ecosystem linework compiled at a scale varying from 1:25,000 to 1:100,000. Linework should be used as a guide only. The positional accuracy of regional ecosystem data mapped at a scale of 1:100,000 is +/- 100 metres.



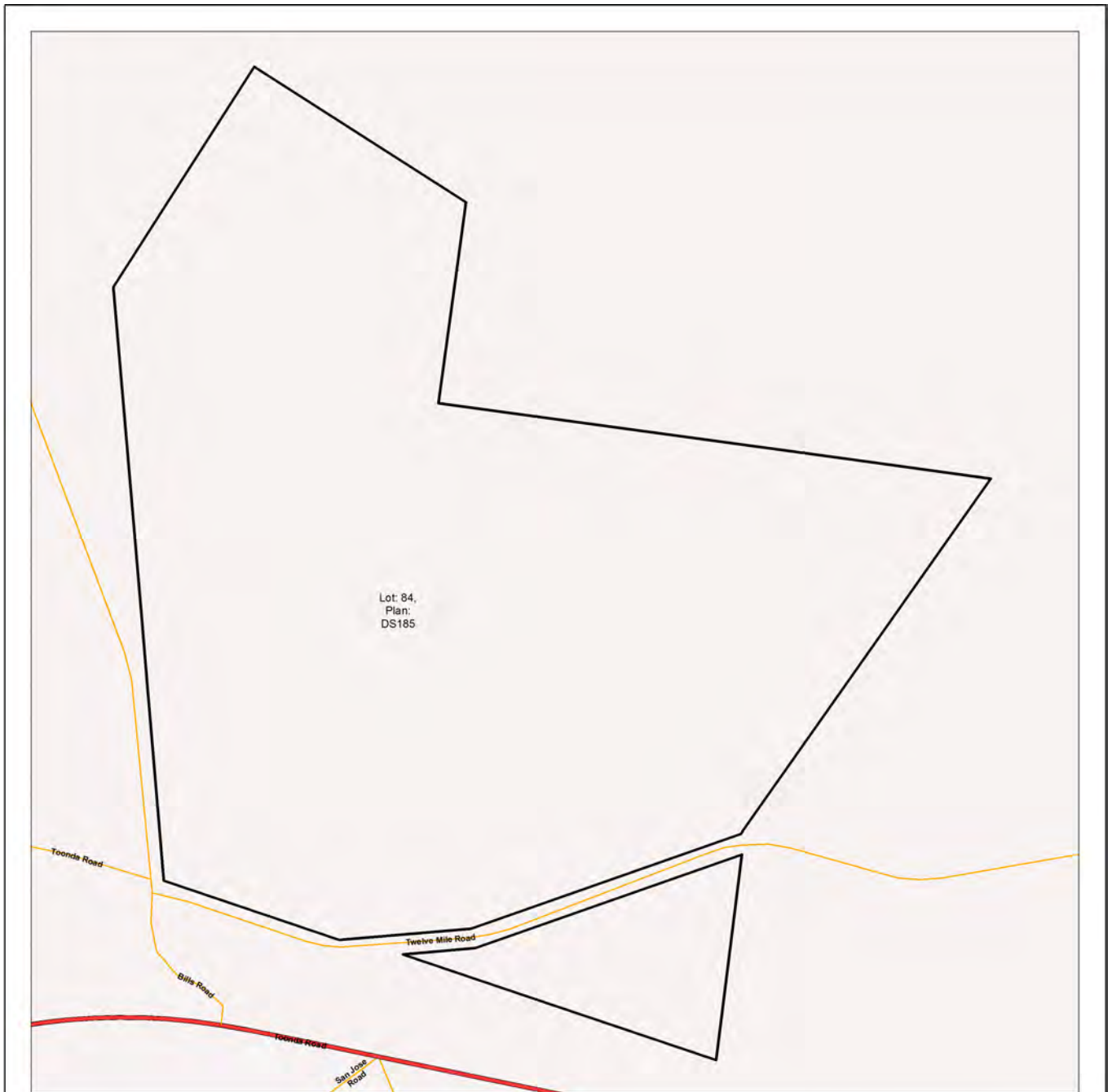
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The koala conservation plan maps will be updated at least annually to include any koala habitat areas that have been made, amended or revoked.









In order to ensure that the most recent map for an area of interest can be accessed, prior to the annual update, a register of changes made to koala habitat areas as a result of the map amendment process will be available at:
<https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping/>.
 The register will include lot on plan for the change, the date the decision was made and the map issued to the landholder which shows areas determined to be koala habitat areas.

7.3 Koala habitat regional ecosystems for core koala habitat areas



Koala habitat regional ecosystems for core koala habitat areas

Legend

-  Selected Lot and Plan
-  Koala habitat area (core)
-  Towns
-  Highway
-  Connector
-  Street/Local Road
-  Major rivers/creeks
-  Queensland



N



This product is projected into GDA 1994 MGA Zone 56

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The koala habitat mapping within South East Queensland uses regional ecosystem linework compiled at a scale varying from 1:25,000 to 1:100,000. Linework should be used as a guide only. The positional accuracy of regional ecosystem data mapped at a scale of 1:100,000 is +/- 100 metres.

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8. Other relevant legislation contacts list

Activity	Legislation	Agency	Contact details
<ul style="list-style-type: none"> • Interference with overland flow • Earthworks, significant disturbance 	<i>Water Act 2000</i> <i>Soil Conservation Act 1986</i>	Department of Regional Development, Manufacturing and Water (Queensland Government) Department of Resources (Queensland Government)	Ph: 13 QGOV (13 74 68) www.rdmw.qld.gov.au www.resources.qld.gov.au
<ul style="list-style-type: none"> • Indigenous Cultural Heritage 	<i>Aboriginal Cultural Heritage Act 2003</i> <i>Torres Strait Islander Cultural Heritage Act 2003</i>	Department of Seniors, Disability Services and Aboriginal and Torres Strait Islander Partnerships	Ph: 13 QGOV (13 74 68) www.datsip.qld.gov.au
<ul style="list-style-type: none"> • Mining and environmentally relevant activities • Infrastructure development (coastal) • Heritage issues 	<i>Environmental Protection Act 1994</i> <i>Coastal Protection and Management Act 1995</i> <i>Queensland Heritage Act 1992</i>	Department of Environment and Science (Queensland Government)	Ph: 13 QGOV (13 74 68) www.des.qld.gov.au
<ul style="list-style-type: none"> • Protected plants and protected areas 	<i>Nature Conservation Act 1992</i>	Department of Environment and Science (Queensland Government)	Ph: 1300 130 372 (option 4) palm@des.qld.gov.au www.des.qld.gov.au
<ul style="list-style-type: none"> • Koala mapping and regulations 	<i>Nature Conservation Act 1992</i>	Department of Environment and Science (Queensland Government)	Ph: 13 QGOV (13 74 68) Koala.assessment@des.qld.gov.au
<ul style="list-style-type: none"> • Interference with fish passage in a watercourse, mangroves • Forestry activities on State land tenures 	<i>Fisheries Act 1994</i> <i>Forestry Act 1959</i>	Department of Agriculture and Fisheries (Queensland Government)	Ph: 13 QGOV (13 74 68) www.daf.qld.gov.au
<ul style="list-style-type: none"> • Matters of National Environmental Significance including listed threatened species and ecological communities 	<i>Environment Protection and Biodiversity Conservation Act 1999</i>	Department of Agriculture, Water and the Environment (Australian Government)	Ph: 1800 803 772 www.environment.gov.au
<ul style="list-style-type: none"> • Development and planning processes 	<i>Planning Act 2016</i> <i>State Development and Public Works Organisation Act 1971</i>	Department of State Development, Infrastructure, Local Government and Planning (Queensland Government)	Ph: 13 QGOV (13 74 68) www.dsdmip.qld.gov.au
<ul style="list-style-type: none"> • Local government requirements 	<i>Local Government Act 2009</i> <i>Planning Act 2016</i>	Department of State Development, Infrastructure, Local Government and Planning (Queensland Government)	Ph: 13 QGOV (13 74 68) Your relevant local government office
<ul style="list-style-type: none"> • Harvesting timber in the Wet Tropics of Qld World Heritage area 	<i>Wet Tropics World Heritage Protection and Management Act 1993</i>	Wet Tropics Management Authority	Ph: (07) 4241 0500 www.wettropics.gov.au



Vegetation management report

For Lot: 29 Plan: DS37

10/03/2022

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Recent changes

Updated mapping

Updated vegetation mapping was released on 8 September 2021 and includes the most recent Queensland Herbarium scientific updates to the Regulated Vegetation Management Map, regional ecosystems, wetland, high-value regrowth and essential habitat mapping.

The Department of Environment and Science have also updated their protected plant and koala protection mapping to align with the Queensland Herbarium scientific updates.

Overview

Based on the lot on plan details you have supplied, this report provides the following detailed information:

Property details - information about the specified Lot on Plan, lot size, local government area, bioregion(s), subregion(s) and catchment(s);

Vegetation management framework - an explanation of the application of the framework and contact details for the Department of Resources who administer the framework;

Vegetation management framework details for the specified Lot on Plan including:

- the vegetation management categories on the property;
- the vegetation management regional ecosystems on the property;
- vegetation management watercourses or drainage features on the property;
- vegetation management wetlands on the property;
- vegetation management essential habitat on the property;
- whether any area management plans are associated with the property;
- whether the property is coastal or non-coastal; and
- whether the property is mapped as Agricultural Land Class A or B;

Protected plant framework - an explanation of the application of the framework and contact details for the Department of Environment and Science who administer the framework, including:

- high risk areas on the protected plant flora survey trigger map for the property;

Koala protection framework - an explanation of the application of the framework and contact details for the Department of Environment and Science who administer the framework; and

Koala protection framework details for the specified Lot on Plan including:

- the koala district the property is located in;
- koala priority areas on the property;
- core and locally refined koala habitat areas on the property;
- whether the lot is located in an identified koala broad-hectare area; and
- koala habitat regional ecosystems on the property for core koala habitat areas.

This information will assist you to determine your options for managing vegetation under:

- the vegetation management framework, which may include:

- exempt clearing work;
- accepted development vegetation clearing code;
- an area management plan;
- a development approval;

- the protected plant framework, which may include:

- the need to undertake a flora survey;
- exempt clearing;
- a protected plant clearing permit;

- the koala protection framework, which may include:

- exempted development;
- a development approval;
- the need to undertake clearing sequentially and in the presence of a koala spotter.

Other laws

The clearing of native vegetation is regulated by both Queensland and Australian legislation, and some local governments also regulate native vegetation clearing. You may need to obtain an approval or permit under another Act, such as the Commonwealth Government's *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Section 8 of this guide provides contact details of other agencies you should confirm requirements with, before commencing vegetation clearing.

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1. Property details

1.1 Tenure and title area

All of the lot, plan, tenure and title area information associated with property Lot: 29 Plan: DS37, are listed in Table 1.

Table 1: Lot, plan, tenure and title area information for the property

Lot	Plan	Tenure	Property title area (sq metres)
29	DS37	Freehold	573,520
C	SP226062	Easement	89,940

The tenure of the land may affect whether clearing is considered exempt clearing work or may be carried out under an accepted development vegetation clearing code.

1.2 Property location

Table 2 provides a summary of the locations for property Lot: 29 Plan: DS37, in relation to natural and administrative boundaries.

Table 2: Property location details

Local Government(s)
Rockhampton Regional

Bioregion(s)	Subregion(s)
Brigalow Belt	Marlborough Plains

Catchment(s)
Fitzroy

2. Vegetation management framework (administered by the Department of Resources)

The *Vegetation Management Act 1999* (VMA), the *Vegetation Management Regulation 2012*, the *Planning Act 2016* and the *Planning Regulation 2017*, in conjunction with associated policies and codes, form the Vegetation Management Framework.

The VMA does not apply to all land tenures or vegetation types. State forests, national parks, forest reserves and some tenures under the *Forestry Act 1959* and *Nature Conservation Act 1992* are not regulated by the VMA. Managing or clearing vegetation on these tenures may require approvals under these laws.

The following native vegetation is not regulated under the VMA but may require permit(s) under other laws:

- grass or non-woody herbage;
- a plant within a grassland regional ecosystem prescribed under Schedule 5 of the *Vegetation Management Regulation 2012*; and
- a mangrove.

2.1 Exempt clearing work

Exempt clearing work is an activity for which you do not need to notify the Department of Resources or obtain an approval under the vegetation management framework. Exempt clearing work was previously known as exemptions.

In areas that are mapped as Category X (white in colour) on the regulated vegetation management map (see section 4.1), and where the land tenure is freehold, indigenous land and leasehold land for agriculture and grazing purposes, the clearing of vegetation is considered exempt clearing work and does not require notification or development approval under the vegetation management framework. For all other land tenures, contact the Department of Resources before commencing clearing to ensure that the proposed activity is exempt clearing work.

A range of routine property management activities are considered exempt clearing work. A list of exempt clearing work is available at

<https://www.qld.gov.au/environment/land/management/vegetation/clearing-approvals/exemptions>.

Exempt clearing work may be affected if the proposed clearing area is subject to development approval conditions, a covenant, an environmental offset, an exchange area, a restoration notice, or an area mapped as Category A. Exempt clearing work may require approval under other Commonwealth, State or Local Government laws, or local government planning schemes. Contact the Department of Resources prior to clearing in any of these areas.

2.2 Accepted development vegetation clearing codes

Some clearing activities can be undertaken under an accepted development vegetation clearing code. The codes can be downloaded at

<https://www.qld.gov.au/environment/land/management/vegetation/clearing-approvals/codes>

If you intend to clear vegetation under an accepted development vegetation clearing code, you must notify the Department of Resources before commencing. The information in this report will assist you to complete the online notification form.

You can complete the online form at

<https://apps.dnrm.qld.gov.au/vegetation/>

2.3 Area management plans

Area Management Plans (AMP) provide an alternative approval system for vegetation clearing under the vegetation management framework. They list the purposes and clearing conditions that have been approved for the areas covered by the plan. It is not necessary to use an AMP, even when an AMP applies to your property.

On 8 March 2020, AMPs ended for fodder harvesting, managing thickened vegetation and managing encroachment. New notifications cannot be made for these AMPs. You will need to consider options for fodder harvesting, managing thickened vegetation or encroachment under a relevant accepted development vegetation clearing code or apply for a development approval.

New notifications can be made for all other AMPs. These will continue to apply until their nominated end date.

If an Area Management Plan applies to your property for which you can make a new notification, it will be listed in Section 3.6 of this report. Before clearing under one of these AMPs, you must first notify the Department of Resources and then follow the conditions and requirements listed in the AMP.

<https://www.qld.gov.au/environment/land/management/vegetation/clearing-approvals/area-management-plans>

2.4 Development approvals

If under the vegetation management framework your proposed clearing is not exempt clearing work, or is not permitted under an accepted development vegetation clearing code, or an AMP, you may be able to apply for a development approval. Information on how to apply for a development approval is available at

<https://www.qld.gov.au/environment/land/management/vegetation/clearing-approvals/development>

2.5. Contact information for the Department of Resources

For further information on the vegetation management framework:

Phone 135VEG (135 834)

Email vegetation@resources.qld.gov.au

Visit <https://www.resources.qld.gov.au/?contact=vegetation> to submit an online enquiry.

3. Vegetation management framework for Lot: 29 Plan: DS37

3.1 Vegetation categories

The vegetation categories on your property are shown on the regulated vegetation management map in section 4.1 of this report. A summary of vegetation categories on the subject lot are listed in Table 3. Descriptions for these categories are shown in Table 4.

Table 3: Vegetation categories for subject property. Total area: 57.31ha

Vegetation category	Area (ha)
Category C	9.6
Category X	47.7

Table 4: Description of vegetation categories

Category	Colour on Map	Description	Requirements / options under the vegetation management framework
A	red	Compliance areas, environmental offset areas and voluntary declaration areas	Special conditions apply to Category A areas. Before clearing, contact the Department of Resources to confirm any requirements in a Category A area.
B	dark blue	Remnant vegetation areas	Exempt clearing work, or notification and compliance with accepted development vegetation clearing codes, area management plans or development approval.
C	light blue	High-value regrowth areas	Exempt clearing work, or notification and compliance with managing Category C regrowth vegetation accepted development vegetation clearing code.
R	yellow	Regrowth within 50m of a watercourse or drainage feature in the Great Barrier Reef catchment areas	Exempt clearing work, or notification and compliance with managing Category R regrowth accepted development vegetation clearing code or area management plans.
X	white	Clearing on freehold land, indigenous land and leasehold land for agriculture and grazing purposes is considered exempt clearing work under the vegetation management framework. Contact the Department of Resources to clarify whether a development approval is required for other State land tenures.	No permit or notification required on freehold land, indigenous land and leasehold land for agriculture and grazing. A development approval may be required for some State land tenures.

Property Map of Assessable Vegetation (PMAV)

The following Property Map of Assessable Vegetation (PMAVs) may be present on this property:

Reference number

2012/004185

3.2 Regional ecosystems

The endangered, of concern and least concern regional ecosystems on your property are shown on the vegetation management supporting map in section 4.2 and are listed in Table 5.

A description of regional ecosystems can be accessed online at <https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/descriptions/>

Table 5: Regional ecosystems present on subject property

Regional Ecosystem	VMA Status	Category	Area (Ha)	Short Description	Structure Category
11.11.16	Of concern	C	4.81	Eucalyptus cambageana, Acacia harpophylla open forest to woodland on old sedimentary rocks with varying degrees of metamorphism and folding. Lowlands	Mid-dense
11.3.2	Of concern	C	less than 0.01	Eucalyptus populnea woodland on alluvial plains	Sparse
11.3.26	Least concern	C	4.81	Eucalyptus moluccana or E. microcarpa woodland to open forest on margins of alluvial plains	Sparse
11.3.4	Of concern	C	less than 0.01	Eucalyptus tereticornis and/or Eucalyptus spp. woodland on alluvial plains	Sparse
non-rem	None	X	47.69	None	None

Please note:

1. All area and area derived figures included in this table have been calculated via reprojecting relevant spatial features to Albers equal-area conic projection (central meridian = 146, datum Geocentric Datum of Australia 1994). As a result, area figures may differ slightly if calculated for the same features using a different co-ordinate system.
2. If Table 5 contains a Category 'plant', please be aware that this refers to 'plantations' such as forestry, and these areas are considered non-remnant under the VMA.

The VMA status of the regional ecosystem (whether it is endangered, of concern or least concern) also determines if any of the following are applicable:

- exempt clearing work;
- accepted development vegetation clearing codes;
- performance outcomes in State Code 16 of the State Development Assessment Provisions (SDAP).

3.3 Watercourses

Vegetation management watercourses and drainage features for this property are shown on the vegetation management supporting map in section 4.2.

3.4 Wetlands

There are no vegetation management wetlands present on this property.

3.5 Essential habitat

Under the VMA, essential habitat for protected wildlife is native wildlife prescribed under the *Nature Conservation Act 1992* (NCA) as critically endangered, endangered, vulnerable or near-threatened wildlife.

Essential habitat for protected wildlife includes suitable habitat on the lot, or where a species has been known to occur up to 1.1 kilometres from a lot on which there is assessable vegetation. These important habitat areas are protected under the VMA.

Any essential habitat on this property will be shown as blue hatching on the vegetation supporting map in section 4.2.

If essential habitat is identified on the lot, information about the protected wildlife species is provided in Table 6 below. The numeric labels on the vegetation management supporting map can be cross referenced with Table 6 to outline the essential habitat factors for that particular species. There may be essential habitat for more than one species on each lot, and areas of Category A, Category B and Category C can be mapped as Essential Habitat.

Essential habitat is compiled from a combination of species habitat models and buffered species records. Regional ecosystem is a mandatory essential habitat factor, unless otherwise stated. Essential habitat, for protected wildlife, means an area of vegetation shown on the Regulated Vegetation Management Map -

- 1) that has at least 3 essential habitat factors for the protected wildlife that must include any essential habitat factors that are stated as mandatory for the protected wildlife in the essential habitat database. Essential habitat factors are comprised of - regional ecosystem (mandatory for most species), vegetation community, altitude, soils, position in landscape; or
- 2) in which the protected wildlife, at any stage of its life cycle, is located.

If there is no essential habitat mapping shown on the vegetation management supporting map for this lot, and there is no table in the sections below, it confirms that there is no essential habitat on the lot.

Category A and/or Category B and/or Category C

Table 6: Essential habitat in Category A and/or Category B and/or Category C

Label	Scientific Name	Common Name	NCA Status	Vegetation Community	Altitude	Soils	Position in Landscape
1785	Geophaps scripta scripta	squatter pigeon (southern subspecies)	V	Dry eucalypt woodland (including poplar box, spotted gum, yellow box, acacia and callitris), with sparse short grass, often on sandy areas near to permanent water; grassy eucalypt woodlands. Nest on ground near or under grass tussock, log or low bush.	None	None	Gravelly ridges, traprock and river flats.
1878	Calidris ferruginea	curlew sandpiper	CE	Foraging on intertidal mudflat in sheltered estuaries, bays, inlets and lagoons; non-tidal swamps and inland ephemeral and permanent lakes, dams or waterholes. Roost on shingle/sand/shell beaches, saltmarsh, mangrove and close to wetlands.	Sea level to 100m.	Sand and mud substrates.	Associated with coastlines and coastal and inland wetlands.
7667	Macropteranthus leiocaulis	None	NT	deciduous vine thicket; semi-evergreen vine thicket; brigalow-semi-evergreen vine thicket; softwood scrub; Araucarian microphyll or simple microphyll vine forest; brigalow/belah scrub	0 to 400 m	duplex soil with sandy clay loam surface or loam to clay loam or heavy clay soil	gentle to steep hill slope, steep ridge line, plain, alluvial flat, watercourse
22459	Ephianura crocea macgregori	yellow chat (Dawson)	E	Swampy grassland (salt couch Sporobolus virginicus, water couch, reeds Schoenoplectus littoralis) and saline herbland (samphire Halosarcia) on marine plain with a network of braided drainage lines.	Sea level to 100m.	None	Marine plains.

Label	Regional Ecosystem (mandatory unless otherwise specified)
1785	8.2.1, 8.2.7, 8.2.8, 8.2.12, 8.3.2, 8.3.3, 8.3.5, 8.3.6, 8.3.13, 8.5.2, 8.5.3, 8.5.5, 8.5.6, 8.9.1, 8.11.1, 8.11.3, 8.11.4, 8.11.5, 8.11.6, 8.11.8, 8.12.6, 8.12.7, 8.12.9, 8.12.12, 8.12.14, 8.12.20, 8.12.22, 8.12.23, 8.12.25, 9.3.1, 9.3.2, 9.3.3, 9.3.4, 9.3.5, 9.3.6, 9.3.7, 9.3.8, 9.3.9, 9.3.11, 9.3.13, 9.3.14, 9.3.15, 9.3.16, 9.3.17, 9.3.18, 9.3.19, 9.3.20, 9.3.21, 9.3.22, 9.3.23, 9.4.1, 9.4.2, 9.4.3, 9.5.3, 9.5.4, 9.5.5, 9.5.6, 9.5.7, 9.5.8, 9.5.9, 9.5.10, 9.5.11, 9.5.12, 9.5.16, 9.7.1, 9.7.2, 9.7.3, 9.7.5, 9.7.6, 9.8.1, 9.8.2, 9.8.4, 9.8.5, 9.8.6, 9.8.9, 9.8.10, 9.8.11, 9.10.1, 9.10.3, 9.10.6, 9.10.7, 9.10.8, 9.11.1, 9.11.2, 9.11.3, 9.11.4, 9.11.5, 9.11.7, 9.11.10, 9.11.11, 9.11.12, 9.11.13, 9.11.15, 9.11.16, 9.11.17, 9.11.18, 9.11.19, 9.11.23, 9.11.26, 9.11.28, 9.11.29, 9.11.31, 9.11.32, 9.12.1, 9.12.3, 9.12.4, 9.12.5, 9.12.6, 9.12.7, 9.12.10, 9.12.11, 9.12.12, 9.12.13, 9.12.16, 9.12.17, 9.12.18, 9.12.19, 9.12.20, 9.12.21, 9.12.22, 9.12.23, 9.12.24, 9.12.26, 9.12.28, 9.12.30, 9.12.31, 9.12.33, 9.12.35, 9.12.37, 9.12.39, 10.3.1, 10.3.2, 10.3.3, 10.3.4, 10.3.5, 10.3.6, 10.3.9, 10.3.10, 10.3.11, 10.3.12, 10.3.13, 10.3.14, 10.3.15, 10.3.19, 10.3.20, 10.3.27, 10.3.28, 10.3.30, 10.3.31, 10.4.3, 10.5.1, 10.5.2, 10.5.4, 10.5.5, 10.5.7, 10.5.9, 10.5.10, 10.5.11, 10.5.12, 10.7.2, 10.7.3, 10.7.5, 10.7.11, 10.7.12, 10.9.1, 10.9.2, 10.9.3, 10.9.5, 10.10.1, 10.10.3, 10.10.4, 10.10.5, 10.10.7, 11.2.1, 11.2.5, 11.3.1, 11.3.2, 11.3.3, 11.3.4, 11.3.6, 11.3.7, 11.3.8, 11.3.9, 11.3.10, 11.3.12, 11.3.13, 11.3.14, 11.3.15, 11.3.16, 11.3.17, 11.3.18, 11.3.19, 11.3.23, 11.3.25, 11.3.27, 11.3.28, 11.3.29, 11.3.30, 11.3.35, 11.3.36, 11.3.37, 11.3.38, 11.3.39, 11.4.2, 11.4.3, 11.4.5, 11.4.8, 11.4.10, 11.4.12, 11.4.13, 11.5.1, 11.5.2, 11.5.3, 11.5.4, 11.5.5, 11.5.8, 11.5.9, 11.5.12, 11.5.13, 11.5.14, 11.5.17, 11.5.20, 11.5.21, 11.7.1, 11.7.2, 11.7.4, 11.7.6, 11.8.2, 11.8.4, 11.8.5, 11.8.8, 11.8.9, 11.8.11, 11.8.12, 11.8.14, 11.8.15, 11.9.2, 11.9.3, 11.9.7, 11.9.9, 11.9.14, 11.10.1, 11.10.4, 11.10.6, 11.10.7, 11.10.11, 11.10.12, 11.10.13, 11.11.1, 11.11.3, 11.11.4, 11.11.6, 11.11.7, 11.11.8, 11.11.9, 11.11.10, 11.11.11, 11.11.15, 11.11.16, 11.11.19, 11.11.20, 11.12.1, 11.12.2, 11.12.3, 11.12.5, 11.12.6, 11.12.7, 11.12.8, 11.12.9, 11.12.10, 11.12.11, 11.12.12, 11.12.13, 11.12.14, 11.12.17, 11.12.20, 12.2.5, 12.2.6, 12.2.7, 12.2.10, 12.2.11, 12.3.3, 12.3.6, 12.3.10, 12.3.12, 12.3.14, 12.3.18, 12.3.19, 12.5.1, 12.5.2, 12.5.4, 12.5.5, 12.5.7, 12.5.8, 12.5.11, 12.5.12, 12.7.1, 12.7.2, 12.8.14, 12.8.16, 12.8.17, 12.8.19, 12.9-10.5, 12.9-10.7, 12.9-10.8, 12.9-10.12, 12.9-10.13, 12.9-10.25, 12.9-10.26, 12.9-10.28, 12.11.5, 12.11.7, 12.11.8, 12.11.14, 12.11.15, 12.11.20, 12.11.21, 12.11.22, 12.11.24, 12.11.25, 12.11.26, 12.11.27, 12.11.28, 12.12.7, 12.12.8, 12.12.9, 12.12.12, 12.12.14, 12.12.21, 12.12.22, 12.12.23, 12.12.24, 12.12.25, 12.12.27, 13.3.1, 13.3.4, 13.3.7, 13.11.1, 13.11.3, 13.11.4, 13.11.8, 13.12.2, 13.12.3, 13.12.5, 13.12.8, 13.12.9, 13.12.10
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7667	11.3.1, 11.3.11, 11.4.1, 11.5.15, 11.11.5, 11.11.14, 11.11.18, 11.12.4, 12.11.4, 12.11.12, 12.12.13
22459	8.1.2, 8.1.3, 8.1.4, 8.3.4, 11.1.1, 11.1.2, 11.1.3, 11.3.24, 11.3.27, 12.1.2

3.6 Area Management Plan(s)

Nil

3.7 Coastal or non-coastal

For the purposes of the accepted development vegetation clearing codes and State Code 16 of the State Development Assessment Provisions (SDAP), this property is regarded as*

Coastal

*See also Map 4.3

3.8 Agricultural Land Class A or B

The following can be used to identify Agricultural Land Class A or B areas under the "Managing regulated regrowth vegetation" accepted development vegetation clearing code:

Does this lot contain land that is mapped as Agricultural Land Class A or B in the State Planning Interactive Mapping System?

No Class A

No Class B

Note - This confirms Agricultural Land Classes as per the State Planning Interactive Mapping System only. This response does not include Agricultural Land Classes identified under local government planning schemes. For further information, check the Planning Scheme for your local government area.

See Map 4.4 to identify the location and extent of Class A and/or Class B Agricultural land on Lot: 29 Plan: DS37.

4. Vegetation management framework maps

Vegetation management maps included in this report may also be requested individually at:

<https://www.resources.qld.gov.au/qld/environment/land/vegetation/vegetation-map-request-form>

Regulated vegetation management map

The regulated vegetation management map shows vegetation categories needed to determine clearing requirements. These maps are updated monthly to show new [property maps of assessable vegetation \(PMAV\)](#).

Vegetation management supporting map

The vegetation management supporting map provides information on regional ecosystems, wetlands, watercourses and essential habitat.

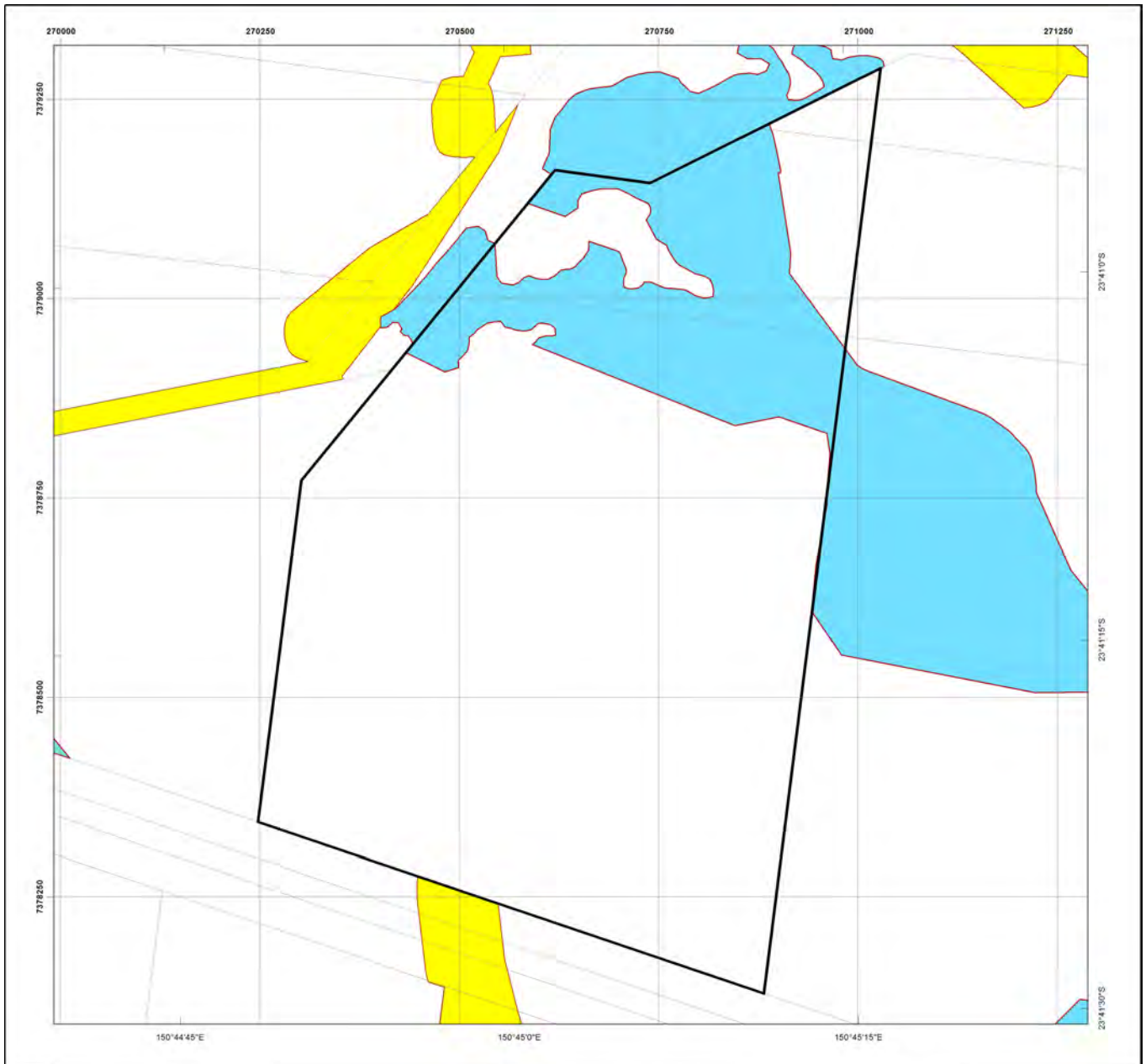
Coastal/non-coastal map

The coastal/non-coastal map confirms whether the lot, or which parts of the lot, are considered coastal or non-coastal for the purposes of the accepted development vegetation clearing codes and State Code 16 of the State Development Assessment Provisions (SDAP).

Agricultural Land Class A or B as per State Planning Policy: State Interest for Agriculture










The Agricultural Land Class map confirms the location and extent of land mapped as Agricultural Land Classes A or B as identified on the State Planning Interactive Mapping System. Please note that this map does not include areas identified as Agricultural Land Class A or B in local government planning schemes. This map can be used to identify Agricultural Land Class A or B areas under the "Managing regulated regrowth vegetation" accepted development vegetation clearing code.

4.1 Regulated vegetation management map



Regulated Vegetation Management Map

Legend

-  Selected Lot and Plan
-  Category A area (Vegetation offsets/compliance notices/VDecs)
-  Category B area (Remnant vegetation)
-  Category C area (High-value regrowth vegetation)
-  Category R area (Reef regrowth watercourse vegetation)
-  Category X area (Exempt clearing work on Freehold, Indigenous and Leasehold land)
-  Water
-  Area not categorised
-  Other land parcel boundaries



This product is projected into:
GDA 1994 MGA Zone 56

Disclaimer:

While every care is taken to ensure the accuracy of this product, the Department of Resources makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you might incur as a result of the product being inaccurate or incomplete in any way and for any reason.

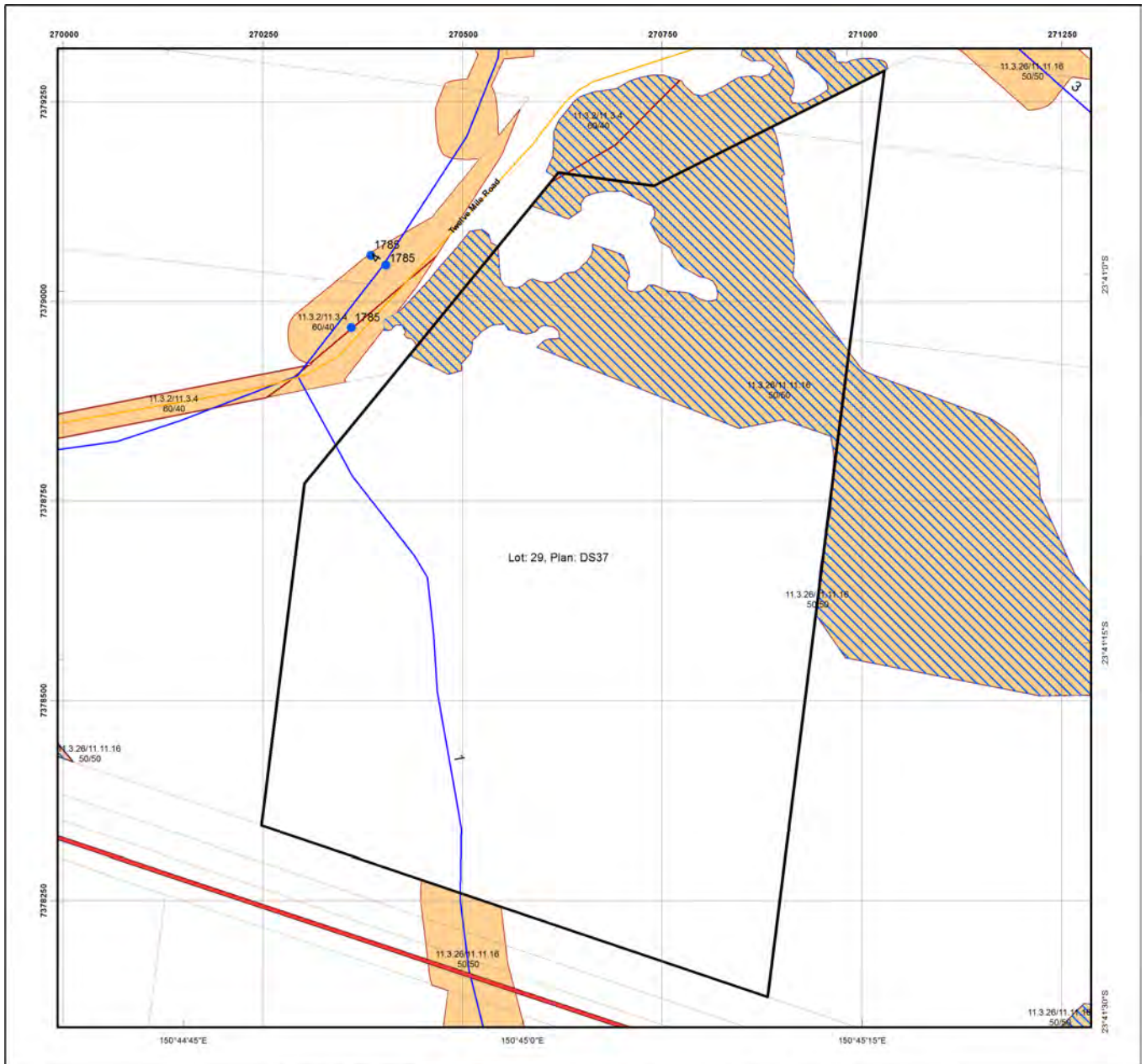
Additional information required for the assessment of vegetation values is provided in the accompanying "Vegetation Management Supporting map". For further information go to the web site: www.resources.qld.gov.au or contact the Department of Resources.

Digital data for the regulated vegetation management map is available from the Queensland Spatial Portal at <http://www.information.qld.gov.au/>

Land parcel boundaries are provided as locational aid only.

This map is updated on a monthly basis to ensure new PMAVs are included as they are approved.

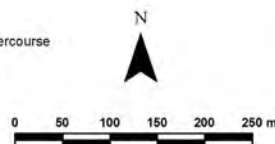
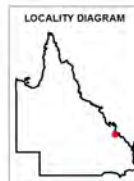
4.2 Vegetation management supporting map



Vegetation Management Supporting Map

Legend

- Selected Lot and Plan
- Category A or B area containing endangered regional ecosystems
- Category A or B area containing of concern regional ecosystems
- Category A or B area that is a least concern regional ecosystem
- Category C or R area containing endangered regional ecosystems
- Category C or R area containing of concern regional ecosystems
- Category C or R area that is a least concern regional ecosystem
- Category X area
- Water
- Wetland on the vegetation management wetlands map
- Essential habitat on the essential habitat map
- Essential habitat species record
- Watercourses and drainage features on the vegetation management watercourse and drainage features map (Stream order shown as black number against stream where available)
- Highway
- Connector
- Street/Local Road
- National Parks, State Forest and other reserves
- Other land parcel boundaries



This product is projected into:
GDA 1994 MGA Zone 56

Labels for Essential Habitat are centred on the area of enquiry.

Regional ecosystem linework has been compiled at a scale of 1:100 000, except in designated areas where a compilation scale of 1:50 000 is available. Linework should be used as a guide only. The positional accuracy of RE data mapped at a scale of 1:100 000 is +/- 100 metres.

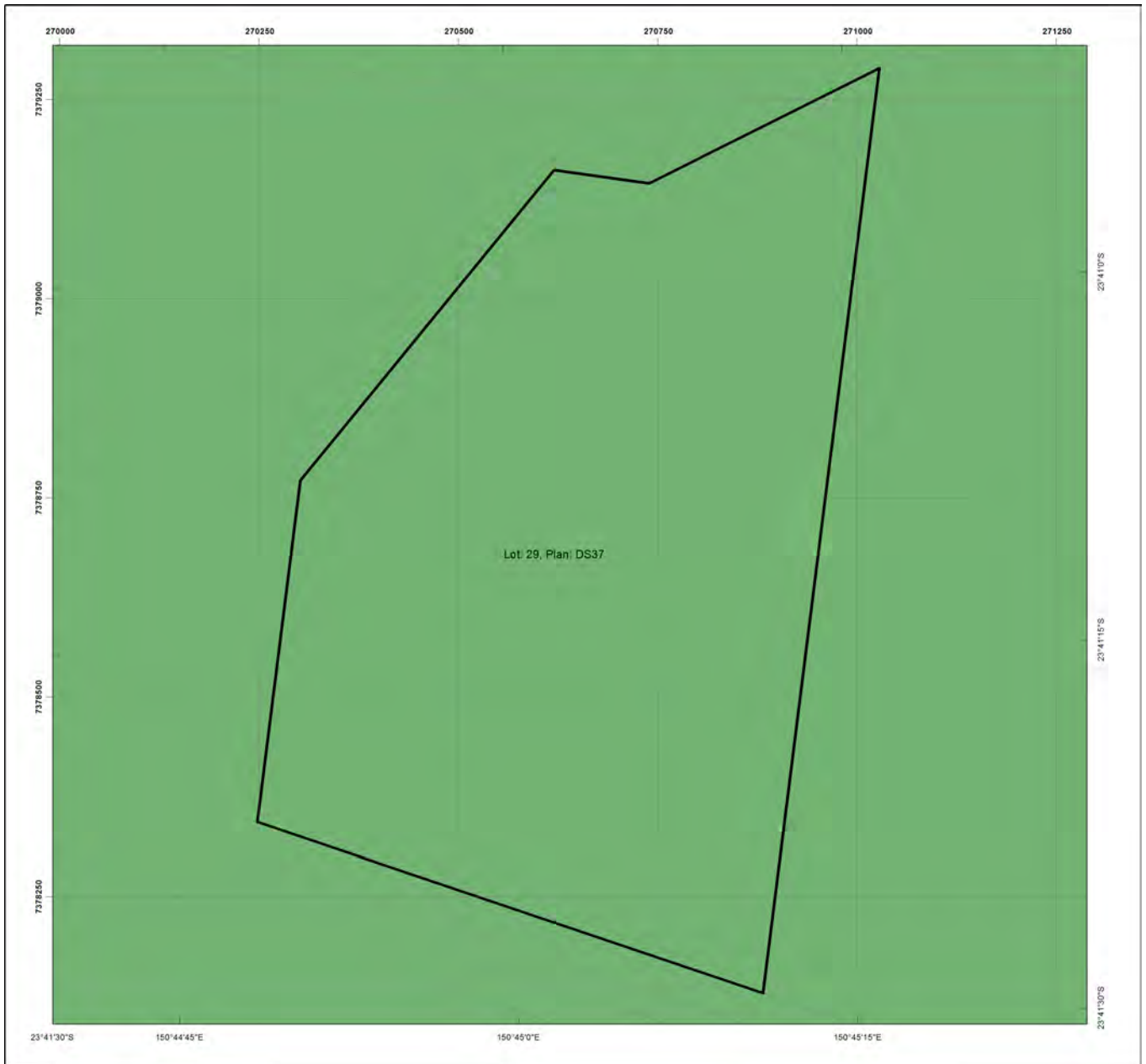
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Additional information may be required for the purposes of land clearing or assessment of a regional ecosystem map or PMAV applications. For further information go to the web site: www.resources.qld.gov.au or contact the Department of Resources.

Digital data for the vegetation management watercourse and drainage feature map, vegetation management wetlands map, essential habitat map and the vegetation management remnant and regional ecosystem map are available from the Queensland Spatial Portal at <http://www.information.qld.gov.au/>





Land parcel boundaries are provided as locational aid only.

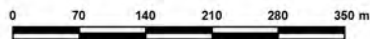
4.3 Coastal/non-coastal map



Coastal/Non Coastal Map

Legend

-  Selected Lot and Plan
-  Coastal
-  Non Coastal
-  Other land parcel boundaries



This product is projected into:
GDA 1994 MGA Zone 56

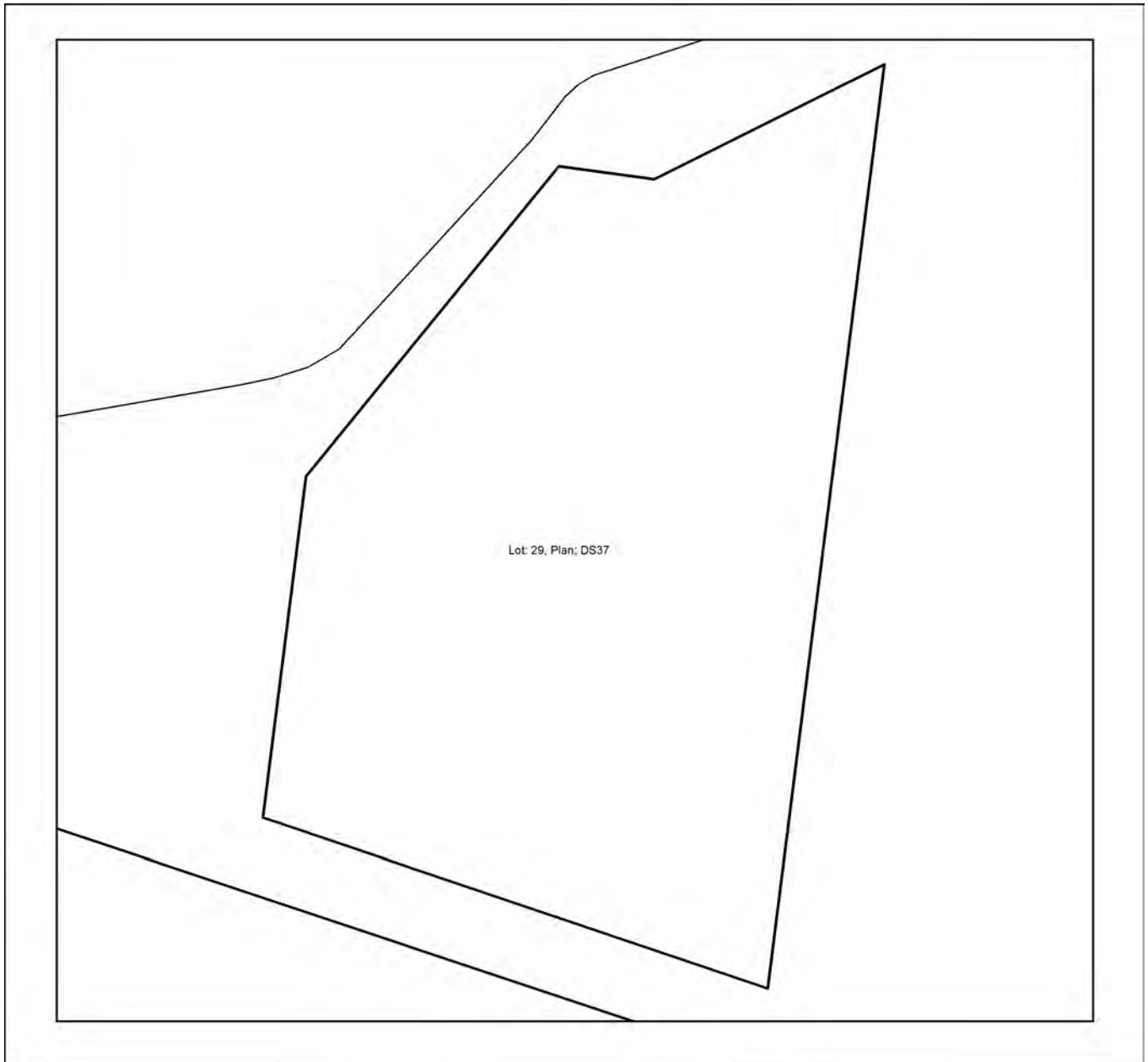
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









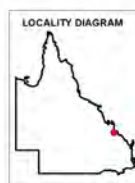
4.4 Agricultural Land Class A or B as per State Planning Policy: State Interest for Agriculture



Agricultural Land Class A or B as per State Planning Policy: State Interest for Agriculture

Legend

-  Selected Lot and Plan
-  Towns
-  Rivers and creeks
-  Freeways / motorways; Highways
-  Secondary roads; Streets
- Agricultural land class A or B
-  A
-  B
-  Not class A or B



This product is projected into GDA 1994 MGA Zone 56

Disclaimer

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5. Protected plants framework (administered by the Department of Environment and Science (DES))

In Queensland, all plants that are native to Australia are protected plants under the [Nature Conservation Act 1992](#) (NCA). The NCA regulates the clearing of protected plants 'in the wild' (see [Operational policy: When a protected plant in Queensland is considered to be 'in the wild'](#)) that are listed as critically endangered, endangered, vulnerable or near threatened under the Act.

Please note that the protected plant clearing framework applies irrespective of the classification of the vegetation under the *Vegetation Management Act 1999* and any approval or exemptions given under another Act, for example, the *Vegetation Management Act 1999* or *Planning Regulation 2017*.

5.1 Clearing in high risk areas on the flora survey trigger map

The flora survey trigger map identifies high-risk areas for endangered, vulnerable or near threatened (EVNT) plants. These are areas where EVNT plants are known to exist or are likely to exist based on the habitat present. The flora survey trigger map for this property is provided in section 5.5.

If you are proposing to clear an area shown as high risk on the flora survey trigger map, a flora survey of the clearing impact area must be undertaken by a suitably qualified person in accordance with the [Flora survey guidelines](#). The main objective of a flora survey is to locate any EVNT plants that may be present in the clearing impact area.

If the flora survey identifies that EVNT plants are not present within the clearing impact area or clearing within 100m of EVNT plants can be avoided, the clearing activity is exempt from a permit. An [exempt clearing notification form](#) must be submitted to the Department of Environment and Science, with a copy of the flora survey report, at least one week prior to clearing.

If the flora survey identifies that EVNT plants are present in, or within 100m of, the area to be cleared, a clearing permit is required before any clearing is undertaken. The flora survey report, as well as an impact management report, must be submitted with the [clearing permit application form](#).

5.2 Clearing outside high risk areas on the flora survey trigger map

In an area other than a high risk area, a clearing permit is only required where a person is, or becomes aware that EVNT plants are present in, or within 100m of, the area to be cleared. You must keep a copy of the flora survey trigger map for the area subject to clearing for five years from the day the clearing starts. If you do not clear within the 12 month period that the flora survey trigger map was printed, you need to print and check a new flora survey trigger map.

5.3 Exemptions

Many activities are 'exempt' under the protected plant clearing framework, which means that clearing of native plants that are in the wild can be undertaken for these activities with no need for a flora survey or a protected plant clearing permit. The Information sheet - General exemptions for the take of protected plants provides some of these exemptions.

Some exemptions under the NCA are the same as exempt clearing work (formerly known as exemptions) under the *Vegetation Management Act 1999* (i.e. listed in Schedule 21 of the Planning Regulations 2017) while some are different.

5.4 Contact information for DES

For further information on the protected plants framework:

Phone 1300 130 372 (and select option four)

Email palm@des.qld.gov.au

Visit <https://www.qld.gov.au/environment/plants-animals/plants/protected-plants>

5.5 Protected plants flora survey trigger map

This map included may also be requested individually at: <https://apps.des.qld.gov.au/map-request/flora-survey-trigger/>.

Updates to the data informing the flora survey trigger map

The flora survey trigger map will be reviewed, and updated if necessary, at least every 12 months to ensure the map reflects the most up-to-date and accurate data available.






Species information

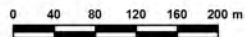
Please note that flora survey trigger maps do not identify species associated with 'high risk areas'. While some species information may be publicly available, for example via the [Queensland Spatial Catalogue](#), the Department of Environment and Science does not provide species information on request. Regardless of whether species information is available for a particular high risk area, clearing plants in a high risk area may require a flora survey and/or clearing permit. Please see the Department of Environment and Science webpage on the [clearing of protected plants](#) for more information.



Protected Plants Flora Survey Trigger Map

Legend

-  Selected Lot and Plan
-  High risk area
-  Other land parcel boundaries
-  Freeways / motorways / highways
-  Secondary roads / streets



This product is projected into:
GDA 1994 MGA Zone 56

This map shows areas where particular provisions of the Nature Conservation Act 1992 apply to the clearing of protected plants.

Land parcel boundaries are provided as locational aid only.

This map is produced at a scale relevant to the size of the area selected and should be printed as A4 size in portrait orientation.

For further information or assistance with interpretation of this product, please contact the Department of Environment and Science at palm@des.qld.gov.au

Disclaimer:
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6. Koala protection framework (administered by the Department of Environment and Science (DES))

The koala (*Phascolarctos cinereus*) is listed in Queensland as vulnerable by the Queensland Government under *Nature Conservation Act 1992* and by the Australian Government under the *Environment Protection and Biodiversity Conservation Act 1999*.

The Queensland Government's koala protection framework is comprised of the *Nature Conservation Act 1992*, the Nature Conservation (Animals) Regulation 2020, the Nature Conservation (Koala) Conservation Plan 2017, the *Planning Act 2016* and the Planning Regulation 2017.

6.1 Koala mapping

6.1.1 Koala districts

The parts of Queensland where koalas are known to occur has been divided into three koala districts - koala district A, koala district B and koala district C. Each koala district is made up of areas with comparable koala populations (e.g. density, extent and significance of threatening processes affecting the population) which require similar management regimes.

Section 7.1 identifies which koala district your property is located in.

6.1.2 Koala habitat areas

Koala habitat areas are areas of vegetation that have been determined to contain koala habitat that is essential for the conservation of a viable koala population in the wild based on the combination of habitat suitability and biophysical variables with known relationships to koala habitat (e.g. landcover, soil, terrain, climate and ground water). In order to protect this important koala habitat, clearing controls have been introduced into the Planning Regulation 2017 for development in koala habitat areas.

Please note that koala habitat areas only exist in koala district A which is the South East Queensland "Shaping SEQ" Regional Plan area. These areas include the local government areas of Brisbane, Gold Coast, Logan, Lockyer Valley, Ipswich, Moreton Bay, Noosa, Redland, Scenic Rim, Somerset, Sunshine Coast and Toowoomba (urban extent).

There are two different categories of koala habitat area (core koala habitat area and locally refined koala habitat), which have been determined using two different methodologies. These methodologies are described in the document [Spatial modelling in South East Queensland](#).

Section 7.2 shows any koala habitat area that exists on your property.

Under the Nature Conservation (Koala) Conservation Plan 2017, an owner of land (or a person acting on the owner's behalf with written consent) can request to make, amend or revoke a koala habitat area determination if they believe, on reasonable grounds, that the existing determination for all or part of their property is incorrect.

More information on requests to make, amend or revoke a koala habitat area determination can be found in the document [Guideline - Requests to make, amend or revoke a koala habitat area determination](#).

The koala habitat area map will be updated at least annually to include any koala habitat areas that have been made, amended or revoked.

Changes to the koala habitat area map which occur between annual updates because of a request to make, amend or revoke a koala habitat area determination can be viewed on the register of approved requests to make, amend or revoke a koala habitat area available at: <https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping/koalamaps>. The register includes the lot on plan for the change, the date the decision was made and the map issued to the landholder that shows areas determined to be koala habitat areas.

6.1.3 Koala priority areas

Koala priority areas are large, connected areas that have been determined to have the highest likelihood of achieving conservation outcomes for koalas based on the combination of habitat suitability, biophysical variables with known relationships to koala habitat (e.g. landcover, soil, terrain, climate and ground water) and a koala conservation cost benefit analysis.

Conservation efforts will be prioritised in these areas to ensure the conservation of viable koala populations in the wild including a focus on management (e.g. habitat protection, habitat restoration and threat mitigation) and monitoring. This includes a prohibition on clearing in koala habitat areas that are in koala priority areas under the Planning Regulation 2017 (subject to some exemptions).

Please note that koala priority areas only exist in koala district A which is the South East Queensland "Shaping SEQ" Regional Plan area. These areas include the local government areas of Brisbane, Gold Coast, Logan, Lockyer Valley,

Ipswich, Moreton Bay, Noosa, Redland, Scenic Rim, Somerset, Sunshine Coast and Toowoomba (urban extent).

Section 7.2 identifies if your property is in a koala priority area.

6.1.4 Identified koala broad-hectare areas

There are seven identified koala broad-hectare areas in SEQ. These are areas of koala habitat that are located in areas committed to meet development targets in the SEQ Regional Plan to accommodate SEQ's growing population including bring-forward Greenfield sites under the Queensland Housing Affordability Strategy and declared master planned areas under the repealed *Sustainable Planning Act 2009* and the repealed *Integrated Planning Act 1997*.

Specific assessment benchmarks apply to development applications for development proposed in identified koala broad-hectare areas to ensure koala conservation measures are incorporated into the proposed development.

Section 7.2 identifies if your property is in an identified koala broad-hectare area.

6.2 Koala habitat planning controls

On 7 February 2020, the Queensland Government introduced new planning controls to the Planning Regulation 2017 to strengthen the protection of koala habitat in South East Queensland (i.e. koala district A).

More information on these planning controls can be found here:

<https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping/legislation-policy>.

As a high-level summary, the koala habitat planning controls make:

- development that involves interfering with koala habitat (defined below) in an area that is both a koala priority area and a koala habitat area, prohibited development (i.e. development for which a development application cannot be made);
- development that involves interfering with koala habitat (defined below) in an area that is a koala habitat area but is not a koala priority area, assessable development (i.e. development for which development approval is required); and
- development that is for extractive industries where the development involves interfering with koala habitat (defined below) in an area that is both a koala habitat area and a key resource area, assessable development (i.e. development for which development approval is required).

Interfering with koala habitat means:

- 1) Removing, cutting down, ringbarking, pushing over, poisoning or destroying in anyway, including by burning, flooding or draining native vegetation in a koala habitat area; but
- 2) Does not include destroying standing vegetation by stock or lopping a tree.

However, these planning controls do not apply if the development is exempted development as defined in Schedule 24 of the [Planning Regulation 2017](#). More information on exempted development can be found here:

<https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping/legislation-policy>.

There are also assessment benchmarks that apply to development applications for:

- building works, operational works, material change of use or reconfiguration of a lot where:
 - the local government planning scheme makes the development assessable;
 - the premises includes an area that is both a koala priority area and a koala habitat area; and
 - the development does not involve interfering with koala habitat (defined above); and
- development in identified koala broad-hectare areas.

The [Guideline - Assessment Benchmarks in relation to Koala Habitat in South East Queensland assessment benchmarks](#) outlines these assessment benchmarks, the intent of these assessment benchmarks and advice on how proposed development may meet these assessment benchmarks.

6.3 Koala Conservation Plan clearing requirements

Section 10 and 11 of the [Nature Conservation \(Koala\) Conservation Plan 2017](#) prescribes requirements that must be met when clearing koala habitat in koala district A and koala district B.

These clearing requirements are independent to the koala habitat planning controls introduced into the Planning Regulation 2017, which means they must be complied with irrespective of any approvals or exemptions offered under other legislation.

Unlike the clearing controls prescribed in the Planning Regulation 2017 that are to protect koala habitat, the clearing requirements prescribed in the Nature Conservation (Koala) Conservation Plan 2017 are in place to prevent the injury or death of koalas when koala habitat is being cleared.

6.4 Contact information for DES

For further information on the koala protection framework:

Phone 13 QGOV (13 74 68)

Email koala.assessment@des.qld.gov.au

Visit <https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping>

7. Koala protection framework details for Lot: 29 Plan: DS37

7.1 Koala districts













Koala District C

7.2 Koala priority area, koala habitat area and identified koala broad-hectare area map

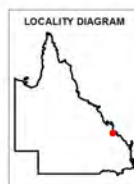


Koala priority area, koala habitat area and identified koala broad-hectare area map

Legend

-  Selected Lot and Plan
-  Koala habitat area (core)
-  Koala habitat area (locally refined)
-  Koala priority area
-  Identified koala broad-hectare area
-  Cadastral Boundaries
-  Towns
-  Highway
-  Connector
-  Street/Local Road
-  Major rivers/creeks
-  Queensland

The koala habitat mapping within South East Queensland uses regional ecosystem linework compiled at a scale varying from 1:25,000 to 1:100,000. Linework should be used as a guide only. The positional accuracy of regional ecosystem data mapped at a scale of 1:100,000 is +/- 100 metres.



Disclaimer:
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The koala conservation plan maps will be updated at least annually to include any koala habitat areas that have been made, amended or revoked.

In order to ensure that the most recent map for an area of interest can be accessed, prior to the annual update, a register of changes made to koala habitat areas as a result of the map amendment process will be available at:
<https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping/>.
The register will include lot on plan for the change, the date the decision was made and the map issued to the landholder which shows areas determined to be koala habitat areas.

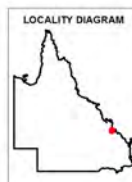
7.3 Koala habitat regional ecosystems for core koala habitat areas



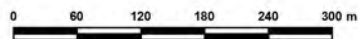
Koala habitat regional ecosystems for core koala habitat areas

Legend

-  Selected Lot and Plan
-  Koala habitat area (core)
-  Towns
-  Highway
-  Connector
-  Street/Local Road
-  Major rivers/creeks
-  Queensland



N



This product is projected into GDA 1994 MGA Zone 56

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The koala habitat mapping within South East Queensland uses regional ecosystem linework compiled at a scale varying from 1:25,000 to 1:100,000. Linework should be used as a guide only. The positional accuracy of regional ecosystem data mapped at a scale of 1:100,000 is +/- 100 metres.

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8. Other relevant legislation contacts list

Activity	Legislation	Agency	Contact details
<ul style="list-style-type: none"> • Interference with overland flow • Earthworks, significant disturbance 	<i>Water Act 2000</i> <i>Soil Conservation Act 1986</i>	Department of Regional Development, Manufacturing and Water (Queensland Government) Department of Resources (Queensland Government)	Ph: 13 QGOV (13 74 68) www.rdmw.qld.gov.au www.resources.qld.gov.au
<ul style="list-style-type: none"> • Indigenous Cultural Heritage 	<i>Aboriginal Cultural Heritage Act 2003</i> <i>Torres Strait Islander Cultural Heritage Act 2003</i>	Department of Seniors, Disability Services and Aboriginal and Torres Strait Islander Partnerships	Ph: 13 QGOV (13 74 68) www.datsip.qld.gov.au
<ul style="list-style-type: none"> • Mining and environmentally relevant activities • Infrastructure development (coastal) • Heritage issues 	<i>Environmental Protection Act 1994</i> <i>Coastal Protection and Management Act 1995</i> <i>Queensland Heritage Act 1992</i>	Department of Environment and Science (Queensland Government)	Ph: 13 QGOV (13 74 68) www.des.qld.gov.au
<ul style="list-style-type: none"> • Protected plants and protected areas 	<i>Nature Conservation Act 1992</i>	Department of Environment and Science (Queensland Government)	Ph: 1300 130 372 (option 4) palm@des.qld.gov.au www.des.qld.gov.au
<ul style="list-style-type: none"> • Koala mapping and regulations 	<i>Nature Conservation Act 1992</i>	Department of Environment and Science (Queensland Government)	Ph: 13 QGOV (13 74 68) Koala.assessment@des.qld.gov.au
<ul style="list-style-type: none"> • Interference with fish passage in a watercourse, mangroves • Forestry activities on State land tenures 	<i>Fisheries Act 1994</i> <i>Forestry Act 1959</i>	Department of Agriculture and Fisheries (Queensland Government)	Ph: 13 QGOV (13 74 68) www.daf.qld.gov.au
<ul style="list-style-type: none"> • Matters of National Environmental Significance including listed threatened species and ecological communities 	<i>Environment Protection and Biodiversity Conservation Act 1999</i>	Department of Agriculture, Water and the Environment (Australian Government)	Ph: 1800 803 772 www.environment.gov.au
<ul style="list-style-type: none"> • Development and planning processes 	<i>Planning Act 2016</i> <i>State Development and Public Works Organisation Act 1971</i>	Department of State Development, Infrastructure, Local Government and Planning (Queensland Government)	Ph: 13 QGOV (13 74 68) www.dsdmip.qld.gov.au
<ul style="list-style-type: none"> • Local government requirements 	<i>Local Government Act 2009</i> <i>Planning Act 2016</i>	Department of State Development, Infrastructure, Local Government and Planning (Queensland Government)	Ph: 13 QGOV (13 74 68) Your relevant local government office
<ul style="list-style-type: none"> • Harvesting timber in the Wet Tropics of Qld World Heritage area 	<i>Wet Tropics World Heritage Protection and Management Act 1993</i>	Wet Tropics Management Authority	Ph: (07) 4241 0500 www.wettropics.gov.au

Appendix B – Certification of Suitably Qualified Person

An assessment against the grading system outlined within Section 4.2.1 of the *Flora Survey Guidelines – Protected Plants* is provided herein. The assessment confirms that Peter Moonie is a suitably qualified person, as more than 100 points have been allocated across both components of the grading system. A curriculum vitae has been previously provided to DES for numerous permit applications.

Component	Points allocated by Guideline	Points achieved by Peter Moonie
Component 1: Qualification knowledge and ability		
A relevant qualification from a recognised institution (e.g. University, TAFE) that results in a thorough knowledge of plant identification and flora surveys.	30 - General training; OR 40 - Australian focussed training; OR 50 - Queensland focussed training	50 – Peter has completed a BSc majoring in ecology at Griffith University
Regional ecosystem training by a recognised and qualified institution, such as the Queensland Herbarium.	5	5 - Peter has completed regional ecosystem and bio-condition assessment training at the Queensland Herbarium
Member of a recognised group / certificate program relevant to ecology/botany, where skills/knowledge are demonstrated to be granted membership. E.g. Certified Environmental Practitioner (CEnvP) Program	5	-
Lead author of articles/papers published in peer reviewed journals in relation to Qld flora surveys, Qld plant identification, or Qld EVNT plants.	10	-
Pre-existing Commonwealth Government accreditation for flora surveys under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act)	30	30 – Peter’s EPBC Act accreditation reference number is 2012/00558
Component 2: Field experience		
Experience within the last 2 years and a total of at least 5 years at leading flora surveys in a field-based environment at a rate of no less than 5 comprehensive botanical surveys that focus on locating and identifying EVNT plants, per year.	40 - General flora surveys; OR 50 – Australian flora surveys; OR 60 - Queensland flora surveys	60 – Peter has been leading comprehensive botanical surveys that focus on locating and identifying EVNT plants in Queensland for the past 6 years and in Australia for the past 18 years.
Number of plant specimens you have collected that have been retained/incorporated into the Queensland Herbarium collection.	5 points per 5 specimens	5 – Unsure of exact total number, but at least 5 specimens have been incorporated into the collection
Total points (100 points required by Guideline)		150

Appendix C – Likelihood of Occurrence and Impacts Assessment

* Unless otherwise referenced, the species information used within this assessment is based on the Species Profile Search information (DES, 2022)

Status is listed as EPBC Act / NC Act as follows:

- CE – critically endangered
- CR – critically endangered
- E – endangered
- V – vulnerable
- NT – near threatened

Occurrence categories:

- High – previously recorded within 10 km of study area and suitable habitat is present
- Moderate – suitable habitat present, within known distribution but not recorded within 10 km of study area
- Low – no suitable habitat present, and not previously recorded within 10 km of study area.

Species	Status [#]	Distribution*	Season	Habitat requirements*	Likelihood of occurrence in clearing impact areas
<i>Atalaya collina</i>	E/E	Recorded in the Mt. Sugarloaf area near Gladstone and near Nagoorin in central-eastern Queensland.	Flowers in November. Mature fruits observed in December (DoCCEEW, 2022).	Found in disturbed semi-evergreen vine thicket or dry rainforest on brownish-black clay loams overlying clay subsoils.	<p>GSDA – Recorded within 10 km of study area (Wildlife Online) but no suitable habitat within study area. Not recorded during survey. Low potential to occur.</p> <p>SGIC - Recorded within 10 km of study area (Wildlife Online) but no suitable habitat within study area. Not recorded during survey. Low potential to occur.</p> <p>Northern section – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.</p>
<i>Bosistoa transversa</i>	V/V	Found from the Nightcap Range north of Lismore in north-east NSW to Mount Larcom (near Gladstone).	Flowers from January to May.	Occurs in lowland subtropical rainforest up to 300 m above sea level.	<p>GSDA – Recorded within 10 km of study area (Wildlife Online) but no suitable habitat within study area. Not recorded during survey. Low potential to occur.</p>

Species	Status [#]	Distribution*	Season	Habitat requirements*	Likelihood of occurrence in clearing impact areas
					<p>SGIC - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey.</p> <p>Low potential to occur.</p> <p>Northern section – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey.</p> <p>Low potential to occur.</p>
<i>Bulbophyllum globuliforme</i>	V/NT	Occurs from near Paluma, north-east Queensland and south to the McPherson Range on the Queensland/New South Wales border (DOCCEEW, 2022).	Flowers May to November.	Host-specific species, only growing on the hoop pine (<i>Araucaria cunninghamii</i>), where it colonises the upper branches of mature trees (DOCCEEW, 2022).	<p>GSDA – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey.</p> <p>Low potential to occur.</p> <p>SGIC - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey.</p> <p>Low potential to occur.</p> <p>Northern section - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey.</p> <p>Low potential to occur.</p>
<i>Capparis humistrata</i>	E/E	Occurs between Marlborough and Bouldercombe. Also found near Dingo in central Queensland.	Flowers recorded in March, May and December. Fruiting recorded in November and December.	Found in eucalypt woodland with a shrubby understorey, on stony hard ridges and serpentinite soil. Also grows on the margins of brigalow forest on sandy soil.	<p>GSDA – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey.</p> <p>Low potential to occur.</p> <p>SGIC – Not recorded within 10 km of study area (Wildlife Online). No suitable habitat within study area. Not recorded during survey.</p> <p>Low potential to occur.</p> <p>Northern section - Recorded within 10 km of study area (Wildlife Online) and no suitable</p>

Species	Status [#]	Distribution*	Season	Habitat requirements*	Likelihood of occurrence in clearing impact areas
					habitat within study area. Not recorded during survey. Low potential to occur.
<i>Cossinia australiana</i>		Rockhampton to Kingaroy	Flowers October to January. Fruiting recorded in February.	Araucarian microphyll vine forest and relict semi-evergreen vine thicket on a variety of soils, including red volcanic soil and black loam.	GSDA – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur. SGIC - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur. Northern section - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.
<i>Cupaniopsis shirleyana</i>	V/V	Restricted to southeast Queensland, from Brisbane, north to Bundaberg.	Flowers from April to June.	Occurs in dry rainforest vegetation types, including vine thicket communities on hillsides, stream beds and along riverbanks at altitudes up to 550 m above sea level.	GSDA – Records within 10 km of study area but records appear to be reassigned as <i>C. watalgan</i> . Not recorded during survey. Low potential to occur. SGIC – Not recorded within within 10 km of study area. Not recorded during survey. Low potential to occur. Northern section - Not recorded within 10 km of study area (Wildlife Online). Not recorded during survey. Low potential to occur.
<i>Cycas megacarpa</i>	E/E	Bouldercombe in the north, to near Woolooga in the south.	Fruiting cones are produced between the months of May and February. Seeds become ripe from March onwards.	Found in woodland, open woodland and open forests, often in conjunction with a grassy understory. Also found in or on the edge of rainforest habitats.	GSDA – Recorded within 10 km of study area (Wildlife Online) and suitable habitat present within study area. Not recorded during survey. High potential to occur.

Species	Status [#]	Distribution*	Season	Habitat requirements*	Likelihood of occurrence in clearing impact areas
					<p>SGIC - Recorded within 10 km of study area (Wildlife Online) but no suitable habitat present within study area. Not recorded during survey. Low potential to occur.</p> <p>Northern section – Not recorded within 10 km of study area (Wildlife Online). Not recorded during survey. Low potential to occur.</p>
<i>Cycas ophiolitica</i>	E/E	Endemic to Queensland, occurring from Marlborough to Rockhampton in central-eastern Queensland.	Seed becomes ripe from March onwards, when it drops from the plant.	Grows on hills and slopes in sparse, grassy open forest at altitude ranges from 80–400 m above sea level. Has been found on red clay soils; shallow, stony, infertile soils developed on sandstone and serpentinite; on mudstone and on alluvial loams.	<p>GSDA – Not recorded within 10 km. Not within recorded distribution. Not recorded during survey. Low potential to occur.</p> <p>SGIC - Not within 10 km of study area (Wildlife Online) and not within the species distribution. Not recorded during survey. Low potential to occur.</p> <p>Northern section – Not recorded within 10 km of study area (Wildlife Online) but within its distribution and marginal habitat present. Not recorded during survey. Moderate potential to occur.</p>
<i>Dansiea elliptica</i>	-/NT	Two disjunct centres of distribution, namely the wet tropics and central Queensland.	Flowering recorded in January and May.	Grows in lowland dry rainforest and vine thicket (notophyll vine forests, semi evergreen vine thickets).	<p>GSDA – Recorded within 10 km of study area (Wildlife Online) but no suitable habitat within study area. Not recorded during survey. Low potential to occur.</p> <p>SGIC – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.</p> <p>Northern section – Not recorded within 10 km of study area (Wildlife Online) and no suitable</p>

Species	Status [#]	Distribution*	Season	Habitat requirements*	Likelihood of occurrence in clearing impact areas
					habitat within study area. Not recorded during survey. Low potential to occur.
<i>Dichanthium setosum</i>	V / -	Inland NSW and Queensland.	Flowers in Summer and becomes dormant in late Autumn.	Found on heavy basaltic black soils and red-brown loams with clay subsoil. Associated species include <i>Eucalyptus albens</i> , <i>E. melanophloia</i> , <i>E. melliodora</i> , <i>E. viminalis</i> . often in moderately disturbed areas such as cleared woodland, grassy roadside remnants and highly disturbed pasture.	GSDA – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur. SGIC - Not recorded within 10 km of study area (Wildlife Online) and only marginal habitat within study area. Not recorded during survey. Low potential to occur. Northern section - Not recorded within 10 km of study area (Wildlife Online) and only marginal habitat within study area. Not recorded during survey. Low potential to occur.
<i>Eucalyptus raveretiana</i>		South of Charters Towers to south of Rockhampton and areas 100 km west of the city.	Flowers from December to March.	Found along watercourses and occasionally on river flats. It occurs in open forest or woodland communities. Preference for moderately fertile soil and adequate sub-soil moisture.	GSDA – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur. SGIC - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur. Northern section - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.
<i>Graptophyllum excelsum</i>	-/NT	Coastal regions from northern to southern Queensland.	Flowers most of the year. Fruits recorded January, July and November.	Mainly occurs in semi-evergreen vine thickets. Associated species include <i>Macropteranthes sp.</i> , <i>Gyrocarpus americanus</i> , <i>Lysiphyllum hookeri</i> , <i>Acacia fasciculifera</i> , <i>Brachychiton australis</i> ,	GSDA – Recorded within 10 km of study area (Wildlife Online) but no suitable habitat within study area. Not recorded during survey.

Species	Status [#]	Distribution*	Season	Habitat requirements*	Likelihood of occurrence in clearing impact areas
				<i>Polyscias elegans</i> , <i>Archidendropsis thozetiana</i> , <i>Gossia bidwillii</i> , <i>Alstonia constricta</i> , <i>Alyxia ruscifolia</i> and <i>Alchornea ilicifolia</i>	Low potential to occur. SGIC – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur. Northern section – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.
<i>Hernandia bivalvis</i>	-/NT	Recorded from Dryander Creek (near Proserpine) south to Mt Tamborine (north east of Beaudesert).	Flowers October to December. Fruits January to April.	Mostly occurs in rainforest on rock pavements and outcrops with shallow soils. Most records are from either vine thicket or microphyll vine forest in altitudes up to 620 m.	GSDA – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur. SGIC - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur. Northern section - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.
<i>Livistona drudei</i>	-/V	Coastal areas, Proserpine to El Arish	Flowers August to March. Fruiting occurs December to June.	Found in melaleuca swamp-forest and fringes of gallery- or tropical-rainforest bordering on eucalypt forest. It grows in areas with boulders, on stream banks on flat coastal plains.	GSDA – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur. SGIC – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.

Species	Status [#]	Distribution*	Season	Habitat requirements*	Likelihood of occurrence in clearing impact areas
					Northern section - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.
<i>Macadamia integrifolia</i>	V/V	Northern NSW to SE Queensland.	Flowers January to November. Fruits November to April.	Remnant rainforest, preferring partially open areas such as rainforest edges.	GSDA – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur. SGIC - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur. Northern section - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.
<i>Macropteranthes leiocaulis</i>	-/NT	Binjour Plateau (NW of Gayndah) to Mingela Bluff (SW of Townsville) (Harden et. al., 2016)	Flowers December to January. Fruits January to February (DNR, 2000).	Mainly occurs in deciduous vine thickets, semi-evergreen vine thickets and araucarian microphyll vine forests on red euchozems or sandstone talus. Also from forest/woodland habitats (DNR, 2000).	GSDA – Recorded within 10 km of study area (Wildlife Online) but no suitable habitat within study area. Not recorded during survey. Low potential to occur. SGIC - Recorded within 10 km of study area (Wildlife Online) but no suitable habitat within study area. Not recorded during survey. Misidentification of the species at Marble Creek (-23.6833, 150.7581) Low potential to occur. Northern section – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.

Species	Status [#]	Distribution*	Season	Habitat requirements*	Likelihood of occurrence in clearing impact areas
<i>Marsdenia brevifolia</i>		North and central Queensland, near Townsville, Springsure and north of Rockhampton	Flowering November to February with fruits January to June.	Occurs in woodlands, dominated by <i>Corymbia erythrophloia</i> and <i>Eucalyptus crebra</i> with dense <i>Themeda triandra</i> understorey on basalt. The species can occur on rock outcrops, black soils, granite soils or dark massive acid agglomerate soils.	<p>GSDA – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.</p> <p>SGIC - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.</p> <p>Northern section - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.</p>
<i>Parsonsia larcomensis</i>	V/V	Restricted to the Rockhampton - Mount Perry area.	Flowers January to June. Fruiting August to September.	Found from 350 to 750 m elevation. It grows in open heathland and shrubland at or near the summits of mountain peaks on cliffs or outcrops of acid volcanic rocks and serpentinites. Also found in complex notophyll vine forest and riverine rainforest on granite.	<p>GSDA – Recorded within 10 km of study area (Wildlife Online) but no suitable habitat within study area. Not recorded during survey. Low potential to occur.</p> <p>SGIC – Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.</p> <p>Northern section - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.</p>
<i>Phaius australis</i>		Occurs north of the Evans Head area in northern New South Wales to the Barron River in northeast Queensland.	Flowers September to November.	Found in coastal wet heath/sedgeland wetlands, swampy grassland or swampy forest, swamp-forest margins, swamp sclerophyll forest, swampy rainforest or fringing open forest.	<p>GSDA – Not recorded within 10 km of study area (Wildlife Online) and minimal suitable habitat within study area. Not recorded during survey. Low potential to occur.</p>

Species	Status [#]	Distribution*	Season	Habitat requirements*	Likelihood of occurrence in clearing impact areas
					<p>SGIC - Not recorded within 10 km of study area (Wildlife Online) and minimal suitable habitat within study area. Not recorded during survey. Low potential to occur.</p> <p>Northern section - Not recorded within 10 km of study area (Wildlife Online) and minimal suitable habitat within study area. Not recorded during survey. Low potential to occur.</p>
<i>Samadera bidwillii</i>	V/V	Known to occur in several localities between Scawfell Island, near Mackay, and Goomborian, north of Gympie.	Flowers from November to March.	Occurs in lowland rainforest or on rainforest margins. Also found in open forests and woodlands. Associated with permanent and temporary watercourses. Occurs on lithosols, skeletal soils, loam soils, sands, silts and sands with clay subsoils.	<p>GSDA – Recorded within 10 km of study area (Wildlife Online) and suitable habitat present within study area. Not recorded during survey. High potential to occur.</p> <p>SGIC – Not recorded within 10 km of study area (Wildlife Online) Not recorded during survey. Low potential to occur.</p> <p>Northern section - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area. Not recorded during survey. Low potential to occur.</p>
<i>Zieria actites</i>	-/CR	Endemic to Mt Larcom.	Flowers, fruit and seed collected from September to May.	Occurs in open woodland/shrubland in crevices and clefts on exposed outcrops and cliff lines on quartz alunite at approximately 630m asl.	<p>GSDA – Recorded within 10 km of study area (Wildlife Online) but no suitable habitat within study area (endemic to Mt Larcom). Not recorded during survey. Low potential to occur.</p> <p>SGIC - Recorded within 10 km of study area (Wildlife Online) but no suitable habitat within study area (endemic to Mt Larcom). Not recorded during survey. Low potential to occur.</p>

Species	Status [#]	Distribution*	Season	Habitat requirements*	Likelihood of occurrence in clearing impact areas
					Northern section - Not recorded within 10 km of study area (Wildlife Online) and no suitable habitat within study area (endemic to Mt Larcom). Not recorded during survey. Low potential to occur.

Queensland Department of Natural Resources (DNR) (2000). Species Management Manual. Forest and Fauna Conservation and Ecology Section, Queensland Department of Natural Resources.

Appendix E

Likelihood of occurrence

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
Threatened flora species						
<i>Atalaya collina</i>	E	E	Recorded in the Mt. Sugarloaf area near Gladstone and near Nagoorin in central-eastern Queensland. Flowers in November. Mature fruits observed in December (DCCEEW 2022). Found in disturbed semi-evergreen vine thicket or dry rainforest on brownish-black clay loams overlying clay subsoils.	Unlikely to occur	May occur	Unlikely to occur
				GSDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within study area. Not recorded during field survey.		
				SGIC SDA: The species has not been historically recorded within the desktop search extent. Minimal suitable habitat within study area. Not recorded during the field survey.		
				Northern Section: The species has not been historically recorded within the desktop search extent and no suitable habitat within survey area. Not recorded during the field survey.		
<i>Bosistoa transversa</i>	V	V	Found from the Nightcap Range north of Lismore in north-east NSW to Mount Larcom (near Gladstone). Flowers from January to May. Occurs in lowland subtropical rainforest up to 300 m above sea level (DES 2022c).	Unlikely to occur	Unlikely to occur	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during survey.		
				SGIC SDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat within survey area. Not recorded during the field survey.		
				Northern Section: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.		
<i>Bulbophyllum globuliforme</i>	NT	V	Occurs from near Paluma, north-east Queensland and south to the McPherson Range on the Queensland/New South Wales border (DAWE, 2022). Flowers May to November. Host-specific species, only growing on the hoop pine (<i>Araucaria cunninghamii</i>), where it colonises the upper branches of mature trees (DAWE, 2022).	Unlikely to occur	Unlikely to occur	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.		
				SGIC SDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.		
				Northern Section: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.		
	E	E		Unlikely to occur	Unlikely to occur	May occur

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
<i>Capparis humistrata</i>			<p>Occurs between Marlborough and Bouldercombe. Also found near Dingo in central Queensland.</p> <p>Flowers recorded in March, May and December. Fruiting recorded in November and December.</p> <p>Found in eucalypt woodland with a shrubby understorey, on stony hard ridges and serpentinite soil. Also grows on the margins of brigalow forest on sandy soil (DES 2022c).</p>	<p>GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.</p> <p>SGIC SDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area. Not recorded during the field survey.</p> <p>Northern Section: The species has been historically recorded within the desktop search extent. Marginal habitat within the study area. Not recorded during the field survey.</p>		
<i>Cossinia australiana</i>	E	E	<p>Rockhampton to Kingaroy</p> <p>Flowers October to January. Fruiting recorded in February.</p> <p>Araucarian microphyll vine forest and relict semi-evergreen vine thicket on a variety of soils, including red volcanic soil and black loam (DES 2022c).</p>	<p>Unlikely to occur Unlikely to occur Unlikely to occur</p> <p>GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.</p> <p>SGIC SDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area. Not recorded during the field survey.</p> <p>Northern Section: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.</p>		
<i>Cupaniopsis shirleyana</i>	V	V	<p>Restricted to southeast Queensland, from Brisbane, north to Bundaberg.</p> <p>Flowers from April to June.</p> <p>Occurs in dry rainforest vegetation types, including vine thicket communities on hillsides, stream beds and along riverbanks at altitudes up to 550 m above sea level (DES 2022c).</p>	<p>Unlikely to occur Unlikely to occur Unlikely to occur</p> <p>GSDA: The species has been historically recorded within the desktop search extent; however, species records appear to be reassigned as <i>Cupaniopsis</i> sp. (Watalgan A.R. Bean 8611). Not recorded during the field survey.</p> <p>SGIC SDA: The species has been historically recorded within the desktop search extent; however, species records appear to be reassigned as <i>Cupaniopsis</i> sp. (Watalgan A.R. Bean 8611). Not recorded during the field survey.</p> <p>Northern Section: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.</p>		
<i>Cycas megacarpa</i>	E	E	<p>Bouldercombe in the north, to near Woolooga in the south.</p>	<p>Likely to occur May occur May occur</p>		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			<p>Fruiting cones are produced between the months of May. And February. Seeds become ripe from March onwards.</p> <p>Found in woodland, open woodland and open forests, often in conjunction with a grassy understory. Also found in or on the edge of rainforest habitats (DES 2022c).</p>	<p>GSDA: The species has been historically recorded within the desktop search extent and suitable habitat was recorded within the study area. Not recorded during the field survey.</p>		
				<p>SGIC SDA: The species has been historically recorded within the desktop search extent; however, marginal habitat within the study area. Not recorded during the field survey.</p>		
				<p>Northern Section: The species has been historically recorded within the desktop search extent and suitable habitat was recorded within the study area. Not recorded during the field survey.</p>		
<i>Cycas ophiolitica</i>	E	E	<p>Endemic to Queensland, occurring from Marlborough to Rockhampton in central-eastern Queensland.</p> <p>Seed becomes ripe from March onwards, when it drops from the plant.</p> <p>Grows on hills and slopes in sparse, grassy open forest at altitude ranges from 80–400 m above sea level. Has been found on red clay soils; shallow, stony, infertile soils developed on sandstone and serpentinite; on mudstone and on alluvial loams.</p>	Unlikely to occur	May occur	May occur
				<p>GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.</p>		
				<p>SGIC SDA: The species has been historically recorded within the desktop search extent and suitable habitat occurs within the study area. Not recorded during the field survey.</p>		
				<p>Northern Section: The species has not been historically recorded within the desktop search extent; however, suitable habitat was recorded within the study area. Not recorded during the field survey.</p>		
<i>Dansiea elliptica</i>	NT	NL	<p>Two disjunct centres of distribution, namely the wet tropics and central Queensland.</p> <p>Flowering recorded in January and May.</p> <p>Grows in lowland dry rainforest and vine thicket (notophyll vine forests, semi evergreen vine thickets).</p>	Unlikely to occur	Unlikely to occur	Unlikely to occur
				<p>GSDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area. Not recorded during the field survey.</p>		
				<p>SGIC SDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area. Not recorded during the field survey.</p>		
				<p>Northern Section: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.</p>		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
<i>Decaspermum struckoiligum</i>	CE	E	<p>Endemic to Bouldercombe Gorge area, east of Mount Morgan.</p> <p>Flowering recorded October and November. Fruits from November to February.</p> <p>Grows in semi-evergreen vine thickets at elevations up to 300 m (DES 2022c).</p>	N/A	Unlikely to occur	N/A
<i>Dichanthium setosum</i>	LC	V	<p>Inland NSW and Queensland.</p> <p>Flowers in summer and becomes dormant in late autumn. Found on heavy basaltic black soils and red-brown loams with clay subsoil. Associated species include <i>Eucalyptus albens</i>, <i>E. melanophloia</i>, <i>E. melliodora</i>, <i>E. viminalis</i>. Often in moderately disturbed areas such as cleared woodland, grassy roadside remnants and highly disturbed pasture (DES 2022c).</p>	Unlikely to occur		
				GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.		
				SGIC SDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.		
				Northern Section: The species has not been historically recorded within the desktop search extent; however, only marginal habitat was recorded within the study area. Not recorded during the field survey.		
<i>Eucalyptus raveretiana</i>	V	LC	<p>South of Charters Towers to south of Rockhampton and areas 100 km west of the city.</p> <p>Flowers from December to March.</p> <p>Found along watercourses and occasionally on river flats. It occurs in open forest or woodland communities. Preference for moderately fertile soil and adequate sub-soil moisture (DES 2022c).</p>	Unlikely to occur		
				GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.		
				SGIC SDA: The species has been historically recorded within the desktop search extent and potentially suitable habitat was recorded within the study area. Not recorded during the field survey.		
				Northern Section: The species has been historically recorded within the desktop search extent and potentially suitable habitat was recorded within the study area. Not recorded during the field survey.		
<i>Graptophyllum excelsum</i>	NT	NL	<p>Coastal regions from northern to southern Queensland.</p> <p>Flowers most of the year. Fruits recorded January, July and November.</p> <p>Mainly occurs in semi-evergreen vine thickets. Associated species include <i>Macropteranthes</i> sp., <i>Gyrocarpus</i></p>	Unlikely to occur		
				GSDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area. Not recorded during the field survey.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			<i>americanus</i> , <i>Lysiphyllum hookeri</i> , <i>Acacia fasciculifera</i> , <i>Brachychiton australis</i> , <i>Polyscias elegans</i> , <i>Archidendropsis thozetiana</i> , <i>Gossia bidwillii</i> , <i>Alstonia constricta</i> , <i>Alyxia ruscifolia</i> and <i>Alchornea ilicifolia</i> (DES 2022c).	SGIC SDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area. Not recorded during the field survey.		
<i>Hernandia bivalvis</i>	NT	NL	Recorded from Dryander Creek (near Proserpine) south to Mt Tamborine (northeast of Beaudesert). Flowers October to December. Fruits January to April. Mostly occurs in rainforest on rock pavements and outcrops with shallow soils. Most records are from either vine thicket or microphyll vine forest in altitudes up to 620 m (DES 2022c).	Unlikely to occur	Unlikely to occur	N/A
				GSDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area. Not recorded during the field survey.		
				SGIC SDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area. Not recorded during the field survey.		
<i>Macadamia integrifolia</i>	V	V	Northern NSW to southeast Queensland. Flowers January to November. Fruits November to April. Remnant rainforest, preferring partially open areas such as rainforest edges (DES 2022c).	Unlikely to occur	Unlikely to occur	N/A
				GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.		
				SGIC SDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.		
<i>Macropteranthes leiocaulis</i>	NT	NL	Binjour Plateau (NW of Gayndah) to Mingela Bluff (SW of Townsville) (Harden <i>et. Al.</i> 2016) Flowers December to January. Fruits January to February (DNR 2000). Mainly occurs in deciduous vine thickets, semi-evergreen vine thickets and araucarian microphyll vine forests on red euchozems or sandstone talus. Also from forest/woodland habitats (DNR 2000).	Unlikely to occur	Unlikely to occur	N/A
				GSDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area. Not recorded during the field survey.		
				SGIC SDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area. Not recorded during the field survey. Misidentification of the species at Marble Creek (- 23.6833, 150.7581).		
<i>Marsdenia brevifolia</i>	V	V	North and central Queensland, near Townsville, Springsure and north of Rockhampton. Flowering November to February with fruits January to June.	Unlikely to occur	Unlikely to occur	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			Occurs in woodlands, dominated by <i>Corymbia erythrophloia</i> and <i>Eucalyptus crebra</i> with dense <i>Themeda triandra</i> understorey on basalt. The species can occur on rock outcrops, black soils, granite soils or dark massive acid agglomerate soils (DES 2022c).	SGIC SDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.		
				Northern Section The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.		
<i>Parsonsia larcomensis</i>	V	V	Restricted to the Rockhampton-- Mount Perry area. Flowers January to June. Fruiting August to September. Found from 350 to 750 m elevation. It grows in open heathland and shrubland at or near the summits of mountain peaks on cliffs or outcrops of acid volcanic rocks and serpentinites. Also found in complex notophyll vine forest and riverine rainforest on granite (DES 2022c).	Unlikely to occur	Unlikely to occur	N/A
				GSDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area. Not recorded during the field survey.		
				SGIC SDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area. Not recorded during the field survey.		
<i>Phaius australis</i>	E	E	Occurs north of the Evans Head area in northern New South Wales to the Barron River in northeast Queensland. Flowers September to November. Found in coastal wet heath/sedgeland wetlands, swampy grassland or swampy forest, swamp-forest margins, swamp sclerophyll forest, swampy rainforest or fringing open forest.	Unlikely to occur	N/A	Unlikely to occur
				GSDA: The species has not been recorded within the desktop search extent; however, minimal suitable habitat was recorded within study area. Not recorded during the field survey.		
				Northern Section: The species has not been recorded within the desktop search extent; however, minimal suitable habitat was recorded within study area. Not recorded during the field survey.		
<i>Samadera bidwillii</i>	V	V	Known to occur in several localities between Scawfell Island, near Mackay, and Goomborian, north of Gympie. Flowers from November to March. Occurs in lowland rainforest or on rainforest margins. Also found in open forests and woodlands. Associated with permanent and temporary watercourses. Occurs on lithosols, skeletal soils, loam soils, sands, silts and sands with clay subsoils (DES 2022c).	Likely to occur	Likely to occur	Unlikely to occur
				GSDA: The species has been historically recorded within the desktop search extent and suitable habitat was recorded within the study area. Not recorded during the field survey.		
				SGIC SDA: The species has been historically recorded within the desktop search extent and suitable habitat was recorded within the study area. Not recorded during the field survey.		
				Northern Section: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area. Not recorded during the field survey.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
<i>Zieria actites</i>	CE	NL	Endemic to Mt Larcom. Flowers, fruit and seed collected from September to May. Occurs in open woodland/shrubland in crevices and clefts on exposed outcrops and cliff lines on quartz alunite at approximately 630m asl (DES 2022c).	Unlikely to occur	Unlikely to occur	N/A
				GSDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area. Not recorded during the field survey.		
				SGIC SDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area. Not recorded during the field survey.		
Threatened bird species						
<i>Botaurus poiciloptilus</i> Australasian bittern	E	E	Distribution: In Queensland, the species occurs as far north as Yeppoon and west to Wyandra. Habitat: The species occurs mainly in freshwater wetlands and, rarely, in estuaries or tidal wetlands. It favours wetlands with tall dense vegetation with shallow water. It favours permanent and seasonal freshwater habitats, particularly those dominated by sedges, rushes and reeds (TSSC 2019).	N/A	May occur	Unlikely to occur
				SGIC SDA: The species has not been historically recorded within the desktop search extent. Suitable habitat, including seasonal wetlands and permanent waterbodies (i.e. billabongs and dams), occur within the study area; however, these habitats are largely dominated by introduced pastoral species.		
				Northern Section: The species has not been historically recorded within the desktop search extent. The Lower Gracemere Lagoon is identified as potentially suitable habitat for the species; however, the species are less often to inhabit inland waterbodies.		
<i>Calidris canutus</i> Red knot	E	E, Mig	Distribution: Occurs along the coastlines of Australia (DCCEEW 2022). Does not breed in Australia (DCCEEW 2022). Migrates from breeding grounds in north-east Siberia to Australia, arriving in August (DCCEEW 2022). Habitat: During the non-breeding season, the red knot mainly inhabits intertidal mudflats, sandflats, and sandy beaches of sheltered coasts. It sometimes on sandy ocean beaches or shallow pools on exposed rock platforms (DCCEEW 2022).	Unlikely to occur	May occur	N/A
				GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat occurs within the study area.		
				SGIC SDA: The species has not been historically recorded within the desktop search extent. Although tidal habitats were recorded within the study area, the SGIC SDA pipeline alignment is proposed to intersect the most upper reaches of tidal creeks, which are not considered as optimal habitat for the species.		
<i>Calidris ferruginea</i> Curlew sandpiper	CE	CE, Mig	Distribution: Mainly occurs along the coastlines of Australia (DCCEEW 2022). They occur in smaller numbers across inland waters in Queensland (DCCEEW 2022). Breeds only in Siberia. Leaves breeding grounds in July and August.	May occur	Likely to occur	May occur
				GSDA: The species has 34 records within the desktop search extent. The GSDA alignment is located immediately adjacent to a modified floodplain, which may provide suitable foraging		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			<p>Arrives in Australia in late August and early September. Flocks stopover in northern Australia before moving on to southeastern Australia. Majority of birds arrive in September. Return migration commences in March (DCCEEW 2022).</p> <p>Habitat: Known to inhabit sheltered intertidal mudflats, and ephemeral and permanent lakes and dams (DCCEEW 2022). Roosts on dry beaches, spits and islets (DCCEEW 2022).</p>	<p>habitat when the area is inundated with water. However, the species are less often to inhabit inland waterbodies.</p> <p>SGIC SDA: The species has 13 records within the desktop search extent, one recorded approximately 2 km west of the SGIC SDA pipeline alignment near Marmor. Suitable habitat including tidal areas, ephemeral and permanent waterways and waterbodies, were recorded within the study area.</p> <p>Northern Section: The species has seven records within the desktop search extent. The Lower Gracemere Lagoon is identified as potentially suitable habitat for the species; however, the species are less often to inhabit inland waterbodies.</p>		
<i>Calidris tenuirostris</i> Great knot	CE	CE, Mig	<p>Distribution: Sheltered coastal habitats around Australia (DCCEEW 2022). Breeds in north-eastern Siberia and Russia. Moves south after breeding to Australia, with migration starting in June. Large flocks arrive in late August through to early September. The majority of the population stays in northern Australia, although some birds move further south. Departure to the breeding grounds commences in March (DCCEEW 2022).</p> <p>Habitat: Known to inhabit large intertidal mudflats, sandy beaches and occasionally on exposed reefs and rock platforms (DCCEEW 2022). Roosts in large congregations in open areas (DCCEEW 2022).</p>	Unlikely to occur	N/A	N/A
<i>Calyptorhynchus lathamii</i> Glossy black-cockatoo	V	E	<p>Habitat: The species occurs in coastal woodlands, open inland woodlands or timbered watercourses where casuarinas occur. Also occur in open sclerophyll forest with a stratum of <i>Allocasuarina</i> beneath <i>Eucalyptus</i>, <i>Corymbia</i> or <i>Angophora</i> (Glossy Black Conservancy 2010).</p>	Confirmed present	N/A	N/A
<i>Charadrius leschenaultii</i> Greater sand plover	V	V, Mig	<p>Distribution: Occurs in coastal regions throughout Australia but is most concentrated in the north (DCCEEW 2022). Breeds in central Asia. Migrates from breeding grounds in July. Passes through south-east Asia into northern Australia, arriving late July (DCCEEW 2022). Follows coastline flyways when moving within Australia. Movement back to breeding grounds commences in late February (DCCEEW 2022).</p> <p>Habitat: Forages on open intertidal flats of sheltered embayments, lagoons or estuaries DCCEEW 2022).</p>	Unlikely to occur	May occur	N/A
				<p>GSDA: The species has four records within the desktop search extent, all of which are located along the coastline. No coastal habitats occur within the study area.</p> <p>SGIC SDA: The species has not been historically recorded within the desktop search extent. Although tidal habitats were recorded within the study area, the SGIC SDA pipeline alignment is proposed to intersect the most upper reaches of tidal creeks, which are not considered as optimal habitat for the species.</p>		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
<i>Charadrius mongolus</i> Lesser sand plover	E	E, Mig	Distribution: Occurs in coastal regions of all states, but mainly through north and east Australia (DCCEEW 2022). The species migrates from breeding grounds, north-east and central Asia, to northern Australia in August and disperses along the coastlines to southern areas. Commences the return journey to breeding grounds in April (DCCEEW 2022). Habitat: Forages along shorelines and intertidal flats and occasionally on coral reefs and river margins (DCCEEW 2022).	Unlikely to occur	May occur	N/A
<i>Cyclopsitta diophthalma coxeni</i> Coxen's fig-parrot	E	E	Distribution: Distribution is poorly known (DCCEEW 2022). Based on species records, the distribution extends from south-eastern Queensland to north-eastern New South Wales (DCCEEW 2022). Habitat: Occurs in rainforest habitats including subtropical rainforest, dry rainforest, littoral and developing littoral rainforest, and vine forest (DCCEEW 2022). Species habitat has been largely cleared following the arrival of Europeans. The remaining population is now thought to be concentrated into fragmented remnants of drier and more hilly habitats (DCCEEW 2022).	Unlikely to occur	Unlikely to occur	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent. The nearest record is approximately 90 km south of the study area. No potentially suitable habitat was recorded within the study area.		
				SGIC SDA: The species has not been historically recorded within the desktop search extent and no potentially suitable habitat was recorded within the study area.		
				Northern Portion: The species has not been historically recorded within the desktop search extent and no suitable habitat occurs within the study area.		
<i>Epthianura crocea macgregori</i> Yellow chat (Dawson)	E	CE	Distribution: Restricted to coastal areas of central Queensland (DCCEEW 2022). Habitat: Inhabits freshwater and saline wetlands on marine plains and occurs in habitats that contain rush and grass vegetation between 0.4 m to 2 m tall along drainage lines and in open habitats for foraging (DCCEEW 2022). The species nests and raises their young in saltwater couch grasslands and samphire shrublands (DCCEEW 2022)	Unlikely to occur	Confirmed present	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area.		
				SGIC SDA: Four individuals were confirmed present during the Arup (2008) field surveys. Species were recorded from two locations along Twelve Mile Creek.		
				Northern Section: The species has one record within the desktop search extent, recorded in 2010. No potentially suitable wetland habitats occur within the study area. The Lower Gracemere Lagoon occurs within the study area; however, it is not located on marine plains.		
<i>Erythrotriorchis radiatus</i> Red goshawk	E	V	Distribution: Patchy, widespread distribution across coastal and sub-coastal regions of northern and eastern Australia (DCCEEW 2022).	Unlikely to occur	Unlikely to occur	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent, the closest record occurs 18.5 km south-east of the study area and was recorded in 2016. Potentially		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			Habitat: Occurs in a range of habitats, often at ecotones, including coastal and sub-coastal tall open forests, tropical savannahs crossed by wooded or forested watercourses, woodlands, edges of rainforests and gallery forests along watercourses, and wetlands that include <i>Melaleuca</i> and <i>Casuarina</i> species (DCCEEW 2022). The species typically nests in tall trees within 1 km of permanent water and occurs in habitats that support a high abundance of bird species (DCCEEW 2022).	<p>suitable habitat is present within the study area. Based on the suitability of habitat, the species has potential to occur. However, it has experienced a recent, rapid northward contraction, and is now rarely encountered south of southern Cape York in Queensland (Garnett and Baker 2020). On this basis, the species is unlikely to occur within the GSDA pipeline alignment.</p> <p>SGIC SDA: The species has two records within the desktop search extent, both recorded in 1955. Potentially suitable habitat is present within the study area. Based on the suitability of habitat, the species has potential to occur. However, it has experienced a recent, rapid northward contraction, and is now rarely encountered south of southern Cape York in Queensland (Garnett and Baker, 2020). On this basis, the species is unlikely to occur within the SGIC SDA pipeline alignment.</p> <p>Northern Section: The species has two records within the desktop search extent, both recorded in 1955. Potentially suitable habitat is present within the study area. Based on the suitability of habitat, the species has potential to occur. However, it has experienced a recent, rapid northward contraction, and is now rarely encountered south of southern Cape York in Queensland (Garnett and Baker, 2020). On this basis, the species is unlikely to occur within the Northern Section pipeline alignment.</p>		
<i>Esacus magnirostris</i> Beach stone-curlew	V	NL	<p>Distribution: North coast of Australian and associated islands from Western Australia to New South Wales (Birdlife Australia 2022)</p> <p>Habitat: The beach stone-curlew forages on large intertidal mudflats, sandflats, sandbanks and sandpits exposed by low tide for crabs and other marine invertebrates. The species is also known to frequent river mouths, offshore sandbars associated with coral atolls, reefs and rock platforms, and coastal lagoons (Birdlife Australia 2022).</p>	Unlikely to occur	N/A	N/A
				GSDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area, the species is associated with marine environments.		
<i>Falco hypoleucos</i> Grey falcon	V	V	<p>Distribution: The species is noted as being absent from east of the Great Dividing Range and is mainly found in regions where the annual rainfall is less than 500 mm and is essentially confined to arid and semi-arid regions (TSSC 2020).</p> <p>Habitat: An elusive species that occurs in arid to semi-arid environments in timbered lowland plains, shrublands, grasslands and open woodlands but have been observed</p>	Unlikely to occur	Unlikely to occur	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent. The species' distribution does not encompass the GSDA pipeline alignment as the project is located east of the Great Dividing Range where the species is noted to be absent. Additionally, BoM Monthly Rainfall statistics for the Gladstone Radar (Station ID: 039123) report that the average annual rainfall for the Gladstone region is above 500		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			hunting in open areas. They preference habitat with tree-lined watercourses for nesting (TSSC 2020).	mm rainfall per year (mean 882.8 mm) based on data collected during the last 63 years (1958 – 2021) (BoM 2022).		
				SGIC SDA: The species has one record within the desktop search extent, recorded in 1975. The species' distribution does not encompass the SGIC SDA pipeline alignment as the project is located east of the Great Dividing Range where the species is noted to be absent. Additionally, BoM Monthly Rainfall statistics for the Gladstone Radar (Station ID: 039123) and Gracemere – Lucas St (Station ID: 039049) report that the average annual rainfall for the Gladstone and Rockhampton region is above 500 mm rainfall per year (mean 882.8 mm) (BoM 2022; BoM 2022a).		
				Northern Section: The species has not been historically recorded within the desktop search extent. The species' distribution does not encompass the Northern Section pipeline alignment as the project is located east of the Great Dividing Range where the species is noted to be absent. Additionally, BoM Monthly Rainfall statistics for the Gracemere – Lucas St (Station ID: 039049) report that the average annual rainfall for the Rockhampton region is above 500 mm rainfall per year (mean 820.3 mm) based on data collected during the last 131 years (1890 – 2021) (BoM 2022a).		
<i>Fregetta grallaria grallaria</i> White-bellied storm-petrel	V	LC	Distribution: Occurs in the tropical and subtropical waters of the Pacific, Indian and Atlantic Oceans, and is known to occur off the coast of eastern Australia (DCCEEW 2022). Habitat: Breeds in colonies on small islets and rocks in the Lord Howe Island (north-east of Sydney) and Kermadec Island complexes (north-east of New Zealand) (DCCEEW 2022).	Unlikely to occur	Unlikely to occur	N/A
				GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area, the species is associated with marine environments.		
				SGIC SDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area, the species is associated with marine environments.		
<i>Geophaps scripta scripta</i> Squatter pigeon (southern)	V	V	Distribution: Extends south from Cape York Peninsula to the Border Rivers region in northern New South Wales, and from the east coast to Hughenden, Longreach and Charleville, Queensland (DCCEEW 2022). Habitat: Occurs in open-forests to sparse, open-woodlands and scrub that are dominated by <i>Eucalyptus</i> , <i>Corymbia</i> and <i>Acacia</i> or <i>Callitris</i> species, remnant and regrowth within 3 km of water (DCCEEW 2022).	Confirmed present	Confirmed present	Likely to occur
				GSDA: Two individuals were confirmed present within the study area during the field surveys.		
				SGIC SDA: 14 individuals were confirmed present within the study area during the field surveys.		
				Northern Section: The species has 194 records within the desktop search extent, the most recent recorded in 2019. The species was confirmed present during the 2007 field surveys		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
				undertaken by Arup (Arup, 2008). Suitable habitat was recorded within the study area.		
<i>Grantiella picta</i> Painted honeyeater	V	V	Distribution: Sparsely distributed from south-eastern Australia to north-western Queensland and eastern Northern Territory (DoE 2015b). Habitat: Diet mainly consists of mistletoe fruits, as well as nectar from flowering mistletoes and eucalypts (DoE 2015b). Inhabits mistletoes in eucalypt forests/woodlands, riparian woodlands, acacia-dominated woodlands, <i>Melaleuca</i> sp., <i>Casuarina</i> sp., <i>Casuarina</i> sp., <i>Callitris</i> sp. and trees on farmlands or gardens (DoE 2015b)	N/A	N/A	Unlikely to occur
<i>Hirundapus caudacutus</i> White-throated needletail	V	V, Mig	Distribution: Widespread throughout eastern and south-eastern Australia. It has been recorded along all coastal regions of QLD and NSW (DCCEEW 2022). Habitat: Almost exclusively aerial, it does prefer wooded, inland areas and heathland. In coastal areas they have been seen flying over mudflats and beaches (DCCEEW 2022).	Likely to occur	Likely to occur	Likely to occur
				GSDA: The species has four records within the desktop search extent, the most recent recorded in 1999. The species has potential to forage aerially across the study area.		
				SGIC SDA: The species has two records within the desktop search extent, the most recent recorded in 1997. The species has potential to forage aerially across the study area.		
				Northern Section: The species has three records within the desktop search extent, the most recent recorded in 2018. The species has potential to forage aerially across the study area.		
<i>Limosa lapponica baueri</i> Western Alaskan bar-tailed godwit	V	V	Distribution: Recorded in all coastal areas of all Australian states. Species is widespread along the east and south-east coasts of Queensland, New South Wales and Victoria (DCCEEW 2022). Habitat: A large wading bird, inhabiting coastal habitats and brackish wetlands, but is rarely observed inland. Forages in sheltered intertidal areas and roosts on sandy beaches, sandbars and spits (DCCEEW 2022).	Unlikely to occur	May occur	May occur
				GSDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat for the species occurs within the study area.		
				SGIC SDA: The species has six records within the desktop search extent. The closest record occurs approximately 2 km west of the SGIC SDA pipeline alignment. Suitable habitat, including tidal areas and seasonal wetlands, were recorded within the study area; however, the species is		
				Northern Section: The species has four records within the desktop search extent, the most recent recorded in 1995 approximately 900 m east of the Northern Section pipeline alignment. Although the species is rarely observed in inland habitats, the species has been recorded within the large wetland immediately adjacent to the Northern Section alignment. The pipeline alignment does not traverse this wetland habitat.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
<i>Lophochroa leadbeateri</i> Major Mitchell's cockatoo	V	NL	Distribution: Located across the arid and semi-arid inland of south-western Queensland (OEH 2022a). Habitat: Inhabits a wide range of vegetated and open inland habitats, in close proximity to water (OEH 2022b).	N/A	Unlikely to occur	Unlikely to occur
<i>Macronectes giganteus</i> Southern giant petrel	E	E, Mig	Distribution: Widespread throughout the Southern Ocean (DCCEEW 2022). Habitat: Species is widespread but generally found in low densities across landmasses in Antarctic waters in summer and is thought to move to areas north of 50°S in winter. Breeding occurs on several islands in the Southern Ocean and Australian Antarctic Territory (DCCEEW 2022).	SGIC SDA: The species has one recorded within the desktop search extent. The species is known to inhabit inland habitats.		
				Northern Section: The species has one record within the desktop search extent. The species is known to inhabit inland habitats.		
				Unlikely to occur	Unlikely to occur	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area, the species is associated with marine environments.		
<i>Neochmia ruficauda ruficauda</i> Star finch (eastern, southern)	E	E	Distribution: The species occurs in low numbers in central Queensland (DCCEEW 2022). Habitat: Mainly inhabits grasslands and grassy woodlands in close proximity to permanent freshwater (DCCEEW 2022). Species are closely associated to habitats that consist certain tree species, including <i>Eucalyptus coolabah</i> , <i>E. tereticornis</i> , <i>E. tessellaris</i> , <i>Melaleuca leucadendra</i> , <i>E. camaldulensis</i> and <i>Casuarina cunninghamii</i> (DCCEEW 2022).	SGIC SDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area, the species is associated with marine environments.		
				Northern Section: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area, the species is associated with marine environments.		
				Unlikely to occur	Unlikely to occur	Unlikely to occur
<i>Neochmia ruficauda ruficauda</i> Star finch (eastern, southern)	E	E	Distribution: The species occurs in low numbers in central Queensland (DCCEEW 2022). Habitat: Mainly inhabits grasslands and grassy woodlands in close proximity to permanent freshwater (DCCEEW 2022). Species are closely associated to habitats that consist certain tree species, including <i>Eucalyptus coolabah</i> , <i>E. tereticornis</i> , <i>E. tessellaris</i> , <i>Melaleuca leucadendra</i> , <i>E. camaldulensis</i> and <i>Casuarina cunninghamii</i> (DCCEEW 2022).	GSDA: The subspecies has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area.		
				SGIC SDA: The subspecies has one record within the desktop search extent, recorded in 1958. Although potentially suitable habitat for the subspecies was recorded within the study area, the total population of the subspecies is estimated to consist of 50 or less breeding birds, which is considered to be of low reliability (DCCEEW 2022).		
				Northern Section: The subspecies has five records within the desktop search extent, the most recent recorded in 1991 approximately 1.6 km east of the Northern Section alignment. Although potentially suitable habitat for the subspecies was recorded within the study area, the total population of the subspecies is estimated to consist of 50 or less breeding birds, which is considered to be of low reliability (DCCEEW 2022).		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
<i>Ninox strenua</i> Powerful owl	V	NL	<p>Distribution: Mainly occurs on the coastal side of the Great Dividing Range from Mackey to south-western Victoria (OEH 2022b).</p> <p>Habitat: The species occurs in a range of vegetation types, from woodland and open sclerophyll forest to tall open wet forest and rainforest. Prefers large tracts of forest or woodland but can occur in fragmented landscapes (Kavanagh and Stanton 2002).</p>	Likely to occur	Likely to occur	N/A
<i>Numenius madagascariensis</i> Eastern curlew	E	CE	<p>Distribution: Distributed along the coast in all states of Australia. The species is rarely recorded inland.</p> <p>Habitat: Associated with sheltered coasts, especially estuaries, bays, harbours, inlets and coastal lagoons, with large intertidal mudflats or sandflats, often with beds of seagrass (DCCEEW 2022). This species forages on soft, sheltered, intertidal sand- or mudflats, often near mangroves, on saltflats, saltmarshes, rockpools, coastal reefs and ocean beaches near the tideline (DCCEEW 2022).</p>	Unlikely to occur	May occur	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area.		
				SGIC SDA: The species has nine records within the desktop search extent. Although tidal habitats were recorded within the study area, the SGIC SDA pipeline alignment is proposed to intersect the most upper reaches of tidal creeks, which are not considered as optimal habitat for the species.		
				Northern Section: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area.		
<i>Pachyptila turtur subantarctica</i> Fairy prion (southern)	LC	V	<p>Distribution: Breeding occurs on New Zealand offshore islands (DCCEEW 2022). Little information is available on migration pathways; however, this subspecies could travel north to subtropical waters during winter understood (DCCEEW 2022).</p> <p>Habitat: It forages over continental shelves and the continental slope and may feed in deep coastal waters (DCCEEW 2022).</p>	Unlikely to occur	Unlikely to occur	N/A
				GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area, the species is associated with marine environments.		
				SGIC SDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area, the species is associated with marine environments.		
<i>Poephila cincta cincta</i>	E	E	<p>Distribution: The southern subspecies is known to occur in the Townsville-Charters Towers region and in scattered sites in central Queensland (DCCEEW 2022). The</p>	Unlikely to occur	Unlikely to occur	Unlikely to occur
				GSDA: The subspecies has not been historically recorded within the desktop search extent. The GSDA largely occurs outside of		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
Black-throated finch (southern)			<p>subspecies remains locally common at only a few sites near Townsville and Charters Towers (DCCEEW 2022).</p> <p>Habitat: Occurs mainly in grassy, open woodlands and forests, typically dominated by <i>Eucalyptus</i>, <i>Corymbia</i> and <i>Melaleuca</i>, and occasionally in tussock grasslands or other habitats, often along or near watercourses, or in the vicinity of water (DCCEEW 2022).</p>	<p>the subspecies' mapped distribution (DCCEEW 2022). Limited foraging habitat was recorded within the study area.</p> <p>SGIC SDA: The subspecies has four records within the desktop search extent, the most recent recorded in 1984. Potentially suitable foraging habitat was recorded within the study area.</p> <p>Northern Section: The subspecies has not been historically recorded within the desktop search extent. Potentially suitable foraging habitat was recorded within the study area, adjacent to water.</p>		
<i>Pterodroma neglecta neglecta</i> Kermadec petrel (western)	V	LC	<p>Distribution: Breeds on islands, islets and atolls in the southern Pacific Ocean. Within Australia, the species nests at Ball's Pyramid (off the coast of Port Macquarie) and Phillip Island, Victoria. This species occasionally reaches the eastern coast of the Australian mainland (DCCEEW 2022).</p> <p>Habitat: Pelagic petrel of the Pacific Ocean (DCCEEW 2022).</p>	<p>Unlikely to occur</p> <p>Unlikely to occur</p> <p>N/A</p> <p>GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area, the species is associated with marine environments.</p> <p>SGIC SDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area, the species is associated with marine environments.</p>		
<i>Rostratula australis</i> Australian painted snipe	E	E	<p>Distribution: Recorded at wetlands from all states of Australia; however, the species is more common in eastern Australia (DCCEEW 2022).</p> <p>Habitat: Typically inhabits shallow terrestrial freshwater (occasionally brackish) wetlands, including temporary and permanent lakes, swamps, claypans and waterlogged grasslands (DCCEEW 2022).</p>	<p>May occur</p> <p>Likely to occur</p> <p>Likely to occur</p> <p>GSDA: The species has not been historically recorded within the desktop search extent. The GSDA alignment is located immediately adjacent to a modified floodplain, which may provide suitable foraging habitat when inundated with water.</p> <p>SGIC SDA: The species has six records within the desktop search extent, the most recent recorded in 2013. Potentially suitable wetland habitats were recorded within the study area.</p> <p>Northern Section: The species has four records within the desktop search extent, the most recent recorded in 2013. Potentially suitable wetland habitats were recorded within the study area.</p>		
<i>Thalassarche impavida</i> Campbell albatross	SL	V, Mig	<p>Distribution: Known to forage over the continental shelf off New South Wales, Victoria and Tasmania (DCCEEW 2022).</p> <p>Habitat: The species forages pelagic waters to shelf-break waters, specialising in the latter (DCCEEW 2022). The only known breeding area for this species is Campbell Island off</p>	<p>Unlikely to occur</p> <p>Unlikely to occur</p> <p>Unlikely to occur</p> <p>GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area, the species is associated with marine environments.</p>		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			the southern coast of New Zealand. Post-breeding, the birds may move north to enter Australia's temperate shelf water (DCCEEW 2022).	SGIC SDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area, the species is associated with marine environments.		
				Northern Section: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area.		
<i>Turnix melanogaster</i> Black-breasted button-quail	V	V	Distribution: Distributed across south-eastern Queensland, from Byfield in the north to the Border Ranges rainforests in the south, typically east of the Great Dividing Range (TSSC 2015). Habitat: This species is typically found in the leaf litter and vine thickets of drier rainforests; scrubby eucalypt, she-oak and <i>Acacia</i> woodlands; and thickets of lantana on rainforest fringes (TSSC 2015).	Unlikely to occur	Unlikely to occur	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area.		
				SGIC SDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area.		
				Northern Section: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area.		
Threatened mammal species						
<i>Chalinolobus dwyeri</i> Large-eared pied bat	V	V	Distribution: Distribution is poorly known. Known to occur from Shoalwater Bay, north of Rockhampton, through to the vicinity of Ulladulla, New South Wales (DCCEEW 2022). Habitat: Species requires a combination of sandstone cliffs/escarpments to provide roosting habitat that is adjacent to higher fertility sites, particularly box gum woodlands or river/rainforest corridors which are used for foraging (DCCEEW 2022). No maternity roost sites are known in Queensland (DCCEEW 2022).	Unlikely to occur	Unlikely to occur	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area.		
				SGIC SDA: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area.		
				Northern Section: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area.		
<i>Dasyurus hallucatus</i> Northern quoll	LC	E	Distribution: Known to occur from Rockhampton to Weipa in Queensland and extends west to central Queensland near Carnarvon National Park (DCCEEW 2022). Habitat: Occurs in a range of habitats, including open dry sclerophyll forest and woodland, riparian woodland, low dry vine thicket, the margins of notophyll vine-forest, mangroves, sugarcane farms and in urban areas. They are	May occur	May occur	May occur
				GSDA: The species has not been historically recorded within the desktop search extent; however, suitable habitat and ground-level microhabitats (e.g. hollow ground logs) were recorded within the study area.		
				SGIC SDA: The species has seven records within the desktop search extent, the most recent recorded in 2021. Suitable habitat		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			most abundant in hilly or rocky areas close to permanent water (DCCEEW 2022). Quolls are likely to disappear in areas where less than 50-70% woodland remains within a 4 km radius. (DCCEEW 2022).	was recorded within the study area; however, ground-level microhabitats (e.g. hollow ground logs) were limited.		
				Northern Section: The species has one historical record from 2021, approximately 10 km south-east of the southern end of the Northern Section. Suitable habitat was recorded within the study area; however, ground-level microhabitats (e.g. hollow ground logs) were limited.		
<i>Dugong dugon</i> Dugong	Mig	V	Distribution: Known to occur throughout northern Australia, and within Queensland as far south as Moreton Bay (DCCEEW 2022h). Habitat: The species is known to congregate and inhabit accessible sea grass meadows within wide shallow bays, wide mangrove channels, and in the lee of large inshore islands (DCCEEW 2022h).	N/A	Unlikely to occur	N/A
				SGIC SDA: Previous occurrence records for the species have occurred at the mouth of the Fitzroy River (ALA 2022), however habitat conditions within the waterways of the SGIC SDA, including turbid waters, no evidence of seagrass meadows and location of the alignment in particular sites 2 and 4 within the upper tidal reaches, are not suitable for the species.		
<i>Macroderma gigas</i> Ghost bat	E	V	Distribution: Species range is discontinuous, with colonies occurring in the Pilbara, Kimberley, northern Northern Territory, the Gulf of Carpentaria, coastal and near coastal eastern Queensland from Cape York to near Rockhampton. Habitat: This species is known to occur in rainforest areas, vine shrub, open woodlands and arid zone (TSSC 2016), and roosts in caves, rock crevices and old mine shafts (TSSC 2016; Bat Call WA 2021).	May occur	May occur	May occur
				GSDA: The species has one historical record from 1985, approximately 10 km north of the study area. Preferred roosting habitat for this species was not recorded within the study area. Although suitable foraging habitat is present within the study area, the species is known to forage on average 1.9 km and typically less than 5 km from diurnal roosts (TSSC 2016; Bat Call WA 2021).		
				SGIC SDA: One individual has been historically recorded within the desktop search extent in 2006. Preferred roosting habitat for this species was not recorded within the study area. Although suitable foraging habitat is present within the study area, the species is known to forage on average 1.9 km and typically less than 5 km from diurnal roosts (TSSC 2016; Bat Call WA 2021).		
				Northern Section: The species has been historically recorded within the desktop search extent, with one historical record from 2006. Preferred roosting habitat for this species was not recorded within the study area. Although suitable foraging habitat is present within the study area, the species is known to forage on average 1.9 km and typically less than 5 km from diurnal roosts (TSSC 2016; Bat Call WA 2021).		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
<i>Nyctophilus corbeni</i> Corben's long-eared bat	V	V	<p>Distribution: Found in southern central Queensland, central western New South Wales, northwestern Victoria and eastern South Australia. Most records occur inland of the Great Dividing Range (TSSC 2015).</p> <p>Habitat: Inhabits a variety of inland woodland vegetation types, including box/ironbark/cypress pine woodlands, buloke woodlands, brigalow woodlands, belah woodlands, smooth-barked apple woodlands, river red gum woodlands and black box woodlands (TSSC 2015). The species roosts solitarily in dead trees or dead limbs of live trees (TSSC 2015).</p>	May occur	May occur	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent; however, potentially suitable roosting and foraging habitat was recorded within the study area.		
				SGIC SDA: The species has not been historically recorded within the desktop search extent; however, potentially suitable roosting and foraging habitat was recorded within the study area.		
				Northern Section: The species has not been historically recorded within the desktop search extent and no suitable habitat was recorded within the study area.		
<i>Orcaella heinsohni</i> Australian snubfin dolphin	NL	V	<p>Distribution: Known to occur throughout northern Australia, and within Queensland as far south on the east coast as Brisbane River (DCCEEW 2022d).</p> <p>Habitat: The species inhabits inshore coastal environments and estuarine creeks, and not likely to venture far up waterways (DCCEEW 2022d).</p>	N/A	May occur	N/A
				SDIC SDA: The species are known to occur within the coastal region of the SGIC SDA and may occur within the estuarine creeks including Raglan Creek at site 2 and Inkerman Creek at site 4.		
<i>Ornithorhynchus anatinus</i> Platypus	SL	-	<p>Distribution: Platypus are found in eastern Australia from far north Queensland to Tasmania. In Queensland, the species inhabits rivers east of the Great Dividing Range, and some western-flowing streams (DES 2021a).</p> <p>Habitat: Platypus habitat includes freshwater creeks, slow-moving rivers, lakes joined by rivers, and built water storages such as farm dams. The species does not occur in estuarine or marine waters. Preferred habitat for the species is defined as areas that have steep, well vegetated banks (Grant and Temple-Smith 1998). Platypi occupy a wide range of aquatic habitats, are somewhat tolerant of degraded systems, and show notable adaptability (Grant and Temple-Smith 1998). Burrows are built in riverbanks, just above water level and often among a tangle of tree roots (DES 2021a).</p>	May occur	Likely to occur	Likely to occur
				GSDA: The species has not been historically recorded within the desktop search extent; however, the distribution of the platypus encompasses the GSDA and potentially suitable habitat occurs within Larcom Creek.		
				SGIC SDA: The species has not previously been recorded within the waterways within the area. However, Twelve Mile Creek at site 3, Bob's Creek at site 5, and Gavial Creek at site 6 contain sub-optimal habitat.		
				Northern Section: The species has been historically recorded within the desktop search extent. The platypus is known to occur throughout upper, mid, and lower reaches of the Fitzroy River and throughout the basin. Site 23 provides suitable habitat and burrowing opportunities for platypi and is therefore likely to occur at this site. At sites 22, 25, 31, and 32, the species is unlikely to occur due to a lack of available surface water.		
<i>Petauroides volans</i> Greater glider (southern and central)	V	E	<p>Distribution: Restricted to eastern Australia, occurring from the Windsor Tableland in north Queensland through to central Victoria (DCCEEW 2022).</p>	Likely to occur	Likely to occur	Unlikely to occur
				GSDA: The species has been historically recorded within the desktop search extent. The nearest record occurs approximately 100 m from the GSDA alignment. Tall, mature woodland		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			Habitat: Largely restricted to eucalypt forests and woodlands, and typically favours habitats containing relatively old trees with an abundance of large tree hollows (diameter > 10 cm) (DCCEEW 2022a). Species requires a diversity of suitable foraging trees. Species forages on eucalypt leaves and occasionally flowers (DCCEEW 2022a). The species has been most frequently recorded feeding on trees including <i>Corymbia citriodora</i> , <i>C. intermedia</i> , <i>Eucalyptus fibrosa</i> , <i>E. moluccana</i> and <i>E. portuensis</i> , with <i>C. citriodora</i> and <i>E. tereticornis</i> being important species in greater glider habitat (Eyre <i>et al.</i> 2022). Species has a relatively small home range, typically 1-4 ha (DCCEEW 2022a). Studies revealed that the occupation of a small (< 3 ha) home range is consistent throughout the species Australian geographic range (Eyre <i>et al.</i> 2022).	retaining suitable foraging and denning habitat was recorded within the study area.		
				SGIC SDA: The species has 14 records within the desktop search extent, the most recent recorded in 2011. Mature open woodland retaining suitable foraging and denning habitat was recorded within the study area.		
				Northern Section: The species has not been historically recorded within the desktop search extent. Suitable foraging habitat was recorded within the study area; however, denning sites are limited and large gaps between vegetated areas persist within the area.		
<i>Petaurus australis australis</i> Yellow-bellied glider (south-eastern)	V	V	Distribution: Patchy, widespread distribution from south-east Queensland to far south-east South Australia (DCCEEW 2022). Habitat: Occurs in eucalypt-dominated forests and woodlands, with a preference for mature old-growth forests that provide suitable hollow habitat for foraging and shelter. The species occurs in both wet and dry sclerophyll forests. Smooth barked eucalypts are important due to the foraging substrates they provide (DCCEEW 2022).	Likely to occur	Likely to occur	N/A
				GSDA: The species has been historically recorded within the desktop search extent. The nearest record occurs approximately 100 m from the GSDA alignment. Tall, mature woodland retaining suitable denning habitat was recorded within the study area.		
				SGIC SDA: The species has 10 records within the desktop search extent, the most recent recorded in 2014. Mature open woodland retaining suitable foraging and denning habitat was recorded within the study area.		
<i>Phascolarctos cinereus</i> Koala	E	E	Distribution: In the region, the species occurs throughout the Brigalow Belt North bioregion (DCCEEW 2022). Habitat: Koalas occur in sub-humid <i>Eucalyptus</i> dominated forests and woodlands in riparian and non-riparian environments, and some <i>Acacia</i> dominated forests and woodlands in non-riparian environments (DCCEEW 2022).	Likely to occur	Likely to occur	Likely to occur
				GSDA: The species has been historically recorded within the desktop search extent. Suitable foraging habitat was recorded within the study area.		
				SGIC SDA: The species has been historically recorded within the desktop search extent. Suitable foraging habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent. Suitable foraging habitat was recorded within the study area.		
	LC	V		Likely to occur	Likely to occur	May occur

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
<i>Pteropus poliocephalus</i> Grey-headed flying-fox			Distribution: Occurs along coastal areas from Ingham in Queensland, to Adelaide in South Australia (DAWE 2021). Habitat: Species occurs in rainforests, open forests, closed and open woodlands, <i>Melaleuca</i> swamps and <i>Banksia</i> woodlands (DCCEEW 2022). Species forage on the blossoms from eucalypt trees and related genera (DCCEEW 2022; DAWE 2021). Roost sites range from rainforest patches, stand of <i>Melaleuca</i> , mangroves and riparian vegetation, in both continuous forest and small vegetation patches (DCCEEW 2022).	GSDA: The species has been historically recorded within the desktop search extent. Suitable foraging habitat was recorded within the study area.		
				SGIC SDA: The species has been historically recorded within the desktop search extent. Suitable foraging habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent; however, only three records were identified within the desktop search extent (10 km) and the most recent record was recorded in 1995. Limited suitable foraging habitat was recorded within the study area.		
<i>Sousa sahalensis</i> Australian Humpback Dolphin	Mig	V	Distribution: Known to occur throughout northern Australia, and within Queensland as far south as the New South Wales border (DCCEEW 2022e). Habitat: The species inhabits inlets, estuaries, major tidal rivers, shallow bays, inshore reefs and archipelagos (DCCEEW 2022e).	N/A	May occur	N/A
				SDIC SDA: The species are known to occur within the coastal region of the SGIC SDA and may occur within the estuarine creeks including Raglan Creek at site 2 and Inkerman Creek at site 4.		
<i>Taphozous australis</i> Coastal sheath-tail bat	NT	NL	Distribution: Along the north-east Queensland coast from Shoalwater Bay to Cape York, extending no more than a few kilometres inland (Queensland Government 2021). Habitat: The species inhabits sand dune scrub, mangroves, melaleuca swamps, coastal heathlands, open eucalypt forest and grasslands. The species forages within one kilometre of the ocean (Queensland Government 2021).	May occur	N/A	N/A
				GSDA: The species has been historically recorded within the desktop search extent. The most southern end of the GSDA is approximately 1 km from the coast. Potentially suitable foraging habitat is located within these areas that are situated a few kilometres from the coastline. However, no potentially suitable roosting habitat occurs within the study area.		
<i>Xeromys myoides</i> Water mouse	V	V	Distribution: Occurs across an extensive range in coastal and near coastal south-east and south-central Queensland (DCCEEW 2022). Habitat: The species occurs in semi-aquatic and estuarine environments including mangroves and associated saltmarshes, sedgeland, clay pans, heathlands and freshwater wetlands (DCCEEW 2022).	Unlikely to occur	May occur	N/A
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
				SGIC SDA: The species has not been historically recorded within the desktop search extent however the distribution of the species includes the SGIC SDA. Suitable habitat was recorded within estuarine environments. No evidence of presence such as nests, rodent tracks or prey middens were observed within suitable habitat within the study area.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
Threatened reptile species						
<i>Acanthophis antarcticus</i> Common death adder	V	NL	Distribution: From central Queensland through New South Wales to the southern parts of South Australia and Western Australia (DoE 2022). Habitat: Occurs in a wide range of well-drained habitats, including rainforests and wet sclerophyll forests, woodlands, shrublands, grasslands and coastal heathlands (DoE 2022). Species prefers sites retaining dense leaf litter (DoE 2022).	N/A	May occur	Unlikely to occur
				SGIC SDA: One individual has been historically recorded within the desktop search extent in 1995. Limited suitable habitat within the study area.		
				Northern Section: One individual has been historically recorded within the desktop search extent in 1995. Limited suitable habitat within the study area. No dense leaf litter was recorded within the study area.		
<i>Caretta caretta</i> Loggerhead Turtle	E, Mig	E	Distribution: The species can be found in waters in sub-tropical and temperate regions throughout the world and are capable of migration large distances of over thousands of kilometres between foraging and breeding grounds. Habitat: The species can inhabit a range habitat types, including open ocean habitat, pelagic feeding grounds, nearshore waters, and shallow coastal habitats and known to feed in a wide range of tidal and subtidal habitats (Limpus <i>et al.</i> 2013a)	N/A	May occur	N/A
				SDIC SDA: The species are known to occur within the coastal and marine waters, however no known occurrences of the species occurs within the estuarine waters of the SGIC SDA. The species are known to feed within tidal and subtidal areas and may occur within any waterways within the SGIC SDA.		
<i>Chelonia mydas</i> Green Turtle	V, Mig	V	Distribution: The species can be found in waters in sub-tropical and temperate regions throughout the world and are capable of migration large distances of over thousands of kilometres between foraging and breeding grounds. Habitat: The species can inhabit a range habitat types, including open ocean habitat, pelagic feeding grounds, nearshore waters, shallow coastal habitats and into estuarine waters. Nesting occurs on offshore barrier reef islands.	N/A	Confirmed present	N/A
				SGIC SDA: The species is previously known to occur within the estuarine waters between Rockhampton and Gladstone. A confirmed sighting of the species occurred during the survey at site 4 on Inkerman Creek. Similar habitat occurs on Raglan Creek at site 2 and is likely to occur at this site.		
<i>Crocodylus porosus</i> Estuarine crocodile	V	Mig, Mar	Distribution: Within Queensland, the distribution of the estuarine crocodiles generally extends from Gladstone in the south through to the Cape York Peninsula in the north and across to the border with the Northern Territory in the west. Habitat: The species is found in a wide range of habitats including rivers, estuaries, creeks, swamps, lagoons and billabongs. The species usually inhabits the lower estuarine sections of rivers and creeks, within Queensland the	Unlikely to occur	Likely to occur	Likely to occur
				GSDA: The species has not been historically recorded within the desktop search extent. Sub-optimal habitat was recorded within the study area, and several barriers for migration downstream of this location. The species is therefore unlikely to occur within Larcom Creek.		
				SGIC SDA: The species has been historically recorded within the desktop search extent. The species is known to occur throughout mid and lower reaches of the Fitzroy River and the Fitzroy River Delta. Optimal habitat occurs within sites 2 and 4		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			<p>species is usually restricted to coastal waterways and floodplain wetlands (DCCEEW 2022).</p> <p>Preferred nesting habitat for the species includes elevated, isolated freshwater swamps that are not subject to tidal waters, whilst floating rafts of vegetation also provides suitable habitat for nesting (DCCEEW 2022). Nesting usually occurs within 10 m of permanent water above the water mark to prevent inundation of the nest by floodwaters (DES 2022b).</p>	<p>and is likely to occur at these sites. Sub-optimal habitat occurs at site 3, 6, and 30 and the species may occur at these sites.</p> <p>Northern Section: The species has been historically recorded within the desktop search extent. The species is known to occur throughout mid and lower reaches of the Fitzroy River. Optimal habitat occurs within Site 23 on the Fitzroy River and therefore the species is likely to occur at this location. The absence of surface water in close proximity to the locations at sites 22, 25, 31, and 32 provides habitat that is unsuitable to support the presence of estuarine crocodiles or provide nesting habitat. The species is unlikely to occur at these locations.</p>		
<i>Delma torquata</i> Collared delma	V	V	<p>Distribution: Species occurs within the southeast Queensland, Condamine, Burnett Mary and Fitzroy (Queensland) Natural Resource Management regions (DEWHA 2008).</p> <p>Habitat: Inhabits eucalypt dominated woodlands and open forests, in RE 11.3.2, 11.9.10, 11.10.1 and 11.10.4. The species occurs in habitats retaining rocks, logs, bark and other coarse woody debris, and mats of leaf litter (DCCEEW 2022).</p>	<p>May occur</p> <p>GSDA: The species has not been historically recorded within the desktop search extent. Limited suitable habitat for the species was recorded within the study area.</p> <p>SGIC SDA: One individual has been historically recorded within the desktop search extent in 1974. Limited suitable habitat for the species was recorded within the study area.</p> <p>Northern Section: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.</p>	<p>May occur</p> <p>Confirmed present</p>	<p>Unlikely to occur</p> <p>May occur</p>
<i>Denisonia maculata</i> Ornamental snake	V	V	<p>Distribution: From the Brigalow Belt North and parts of the Brigalow Belt South biogeographical regions within the drainage system of the Fitzroy and Dawson River (DCCEEW 2022).</p> <p>Habitat: The preferred habitat is within or adjacent to habitat that is favoured by frogs. The species is known to prefer woodlands and open forests associated with moist areas, particularly gilgai mounds and depressions in RE Land Zone 4, but also lake margins and wetlands (DCCEEW 2022).</p>	<p>Unlikely to occur</p> <p>GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.</p> <p>SGIC SDA: Two individuals were confirmed present within the study area during the Arup (2008) field surveys.</p> <p>Northern Section: The species has been historically recorded within the study area. Limited suitable habitat was recorded within the study area. One seasonal waterbody retaining suitable microhabitat features including logs, woody debris and soil cracks were recorded within the study area. Spotlighting and nocturnal searches were undertaken at this waterbody. No individuals were recorded; however, frogs were abundant.</p>	<p>Confirmed present</p>	<p>May occur</p>
<i>Dermochelys coriacea</i> Leatherback turtle	E, Mig	E	<p>Distribution: The species can be found in waters in sub-tropical and temperate regions throughout the world and are capable of migration large distances of over thousands of</p>	<p>N/A</p> <p>SDIC SDA: The species are known to occur within the coastal and marine waters. Open water pelagic species unlikely to occur</p>	<p>Unlikely to occur</p>	<p>N/A</p>

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			<p>kilometres between foraging and breeding grounds. Very rarely encountered within the vicinity of Port Curtis and Port Alma (Limpus <i>et al.</i> 2013b).</p> <p>Habitat: The species can inhabit a range habitat types, including open ocean habitat, pelagic feeding grounds, nearshore waters, and shallow coastal habitats. Species are an open ocean pelagic species (Limpus <i>et al.</i> 2013b).</p>	in the upper tidal creeks within the alignment and are unlikely to occur within any waterways within the SGIC SDA.		
<i>Egernia rugosa</i> Yakka skink	V	V	<p>Distribution: Discontinuous, patchy distribution from the Queensland/New South Wales border to Cape York Peninsula, covering portions of the Brigalow Belt, Mulga Lands, South-east Queensland, Einasleigh Uplands, Wet Tropics and Cape York Peninsula Biogeographic Regions (Commonwealth of Australia 2011b; DCCEEW 2022).</p> <p>Habitat: The species typically occurs in open dry sclerophyll forest, woodland and scrub, especially within the Mulga Land and Brigalow Belt South Bioregion. Species is typically found under partly buried rocks, logs, tree stumps, root cavities and abandoned burrows (DCCEEW 2022).</p>	Unlikely to occur	May occur	May occur
				GSDA: The species has not been historically recorded within the desktop search extent. Limited suitable habitat was recorded within the study area.		
				SGIC SDA: The species has five records within the desktop search extent, the most recent recorded in 2003. Preferred woodland habitats recorded within the study area included poplar box and brigalow. Where these woodland types occurred, the landscape was heavily grazed by cattle and retained limited suitable ground-level microhabitats.		
				Northern Section: Three individuals have been historically recorded within the desktop search extent. The most recent record was recorded in 1989. Patches of poplar box (<i>Eucalyptus populnea</i>) was recorded within the study area. Where poplar box occurred, the landscape was heavily grazed by cattle and retained limited suitable ground-level microhabitats.		
<i>Eelseya albagula</i> White-throated snapping turtle	CE	CE	<p>Distribution: The white-throated snapping turtle is endemic to the Fitzroy, Burnett and Mary River catchments. The species is not thought to occur within farm dams, ephemeral swamplands or brackish waters but does occur in impounded pools at lower densities (Limpus <i>et al.</i> 2011; Hamann <i>et al.</i> 2007). The white-throated snapping turtle is also known to inhabit impounded pools with individuals recorded within the Fitzroy Barrage, Eden Bann Weir, Theodore Weir, Glebe Weir and Callide Dam. (Limpus <i>et al.</i> 2011b).</p> <p>Habitat: This species primarily inhabits permanent flowing reaches of streams with a sand/gravel substrate and an abundance of refugia (i.e. rock crevices, submerged logs, macrophytes beds) (Hamann <i>et al.</i> 2007). During the day, the white-throated snapping turtle is generally found in deep pools (>6 m) either up- or downstream from a riffle zone,</p>	Unlikely to occur	Unlikely to occur	Likely to occur
				GSDA: The species has not been historically recorded within the desktop search extent and outside of the known distribution.		
				SGIC SDA: The species has been historically recorded within the desktop search extent. The white-throated snapping turtle has been previously recorded in Raglan Creek however the species does not persist in estuarine waters and therefore s is unlikely to occur within the SGIC SDA pipeline alignment.		
				Northern Section: The species has been historically recorded within the desktop search extent. The white-throated snapping turtle is known to occur throughout upper, mid, and lower reaches of the Fitzroy River and throughout the basin, including in the reach at site 23. Site 23 is unlikely to support nesting. At sites 22, 25, 31, and 32, the species is unlikely to occur due to a lack of available surface water.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			whereas at night the turtle moves into the shallow riffle zones (Gordos <i>et al.</i> 2007; Hamann <i>et al.</i> 2007).			
<i>Eretmochelys imbricata</i> Hawksbill turtle	V, Mig	E	Distribution: The species can be found in waters in sub-tropical and temperate regions throughout the world and are capable of migration large distances of over thousands of kilometres between foraging and breeding grounds. Habitat: The species can inhabit a range habitat types, including open ocean habitat, pelagic feeding grounds, nearshore waters, and shallow coastal habitats. Hawksbill diet consists of sea grasses, algae, soft corals and shellfish.	N/A	Unlikely to occur	N/A
<i>Furina dunmalli</i> Dunmall's snake	V	V	Distribution: Found on the low to mid elevation from Yeppoon in the north to Oakey, Glenmorgan and Inglewood in the south in Queensland (Cogger <i>et al.</i> 1993). Habitat: The species inhabits brigalow (<i>Acacia harpophylla</i>), cypress (<i>Cyprinus</i> sp.) and bullock (<i>Casuarina cristata</i>) forest and woodland on cracking black clay and clay loam soils. The species is also known to occur in habitats retaining spotted gum and (<i>Corymbia citriodora</i>) and ironbark (<i>Eucalyptus crebra</i>) on sandstone (Commonwealth of Australia 2011b)	Unlikely to occur	May occur	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent. No woodland habitats retaining brigalow, cypress or bullock were recorded within the study area. Tree species including <i>C. citriodora</i> and <i>E. crebra</i> were observed within the study area; however, these species were recorded on metamorphic rocks or alluvial flats, retaining limited ground-level microhabitats such as fallen timber, leaf litter and cracking soils.		
				SGIC SDA: One individual has been historically recorded within the desktop search extent in 1971. Woodland habitats retaining brigalow were recorded within the study area; however, ground-level microhabitats were absent. Vegetated areas within the study area retained very little ground-level features such as fallen timber, leaf litter and cracking soils.		
				Northern Section: The species has not been historically recorded in the desktop search extent. A small area retaining brigalow regrowth was recorded within the study area; however, ground-level microhabitats were absent. Vegetated areas within the study area retained very little ground-level features such as fallen timber, leaf litter and cracking soils.		
<i>Hemiaspis damelii</i> Grey snake	E	NL	Distribution: From central inland New South Wales, north to coastal areas near Rockhampton in Queensland (Rowland 2012). Habitat: The species inhabits brigalow (<i>Acacia harpophylla</i>) and belah (<i>Casuarina cristata</i>) woodlands on heavier, cracking clay soils, in association with waterbodies or in areas retaining gilgais (Rowland 2012). The species almost	N/A	Likely to occur	May occur
				SGIC SDA: The species has 22 records within the desktop search extent, the most recent recorded in 2015. Woodland habitats retaining brigalow were recorded within the study area; however, ground-level microhabitats were sparse. Vegetated areas within the study area retained very little ground-level features such as fallen timber, leaf litter and cracking soils.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			exclusively feeds on frogs and shelters under rocks, logs and debris, and in soil cracks or abandoned burrows in moist/seasonally inundated habitats (Rowland 2012).	Northern Section: The species has been historically recorded within the desktop search extent. Limited suitable habitat was recorded within the study area. One seasonal waterbody retaining suitable microhabitat features including logs, woody debris and soil cracks were recorded within the study area. Spotlighting and nocturnal searches were undertaken at this waterbody. No individuals were recorded; however, frogs were abundant.		
<i>Lepidochelys olivacea</i> Olive Ridley turtle	E, Mig	E	Distribution: The species can be found in waters in sub-tropical and temperate regions throughout the world and are capable of migration large distances of over thousands of kilometres between foraging and breeding grounds. Habitat: The species can inhabit a range habitat types, including open ocean habitat, pelagic feeding grounds, nearshore waters, and shallow coastal habitats.	N/A	Unlikely to occur	N/A
<i>Natator depressus</i> Flatback Turtle	V, Mig	V	Distribution: The species can be found in waters in sub-tropical and temperate regions throughout the world and are capable of migration large distances of over thousands of kilometres between foraging and breeding grounds. Habitat: The species can inhabit a range habitat types, including open ocean habitat, pelagic feeding grounds, nearshore waters, and shallow coastal habitats. Species known to feed upon sea pens, soft corals and sea cucumbers (Limpus <i>et al.</i> 2013c)	N/A	Unlikely to occur	N/A
<i>Rheodytes leukops</i> Fitzroy River turtle	V	V	Distribution: Endemic to south-eastern Queensland and restricted to the Fitzroy River and its tributaries (ALA 2022). Habitat: This species inhabits clear flowing rivers with shallow riffles, deep pools and gravel, sand, or rocky substrate. They are benthic feeders with a diet consisting off aquatic plants, insects, and macro-invertebrates, with a habitat preference to ribbon weed beds (ALA 2022).	Unlikely to occur	Unlikely to occur	Likely to occur
				GSDA: The species has not been historically recorded within the desktop search extent and outside of the known distribution.		
				SGIC SDA: The species is only known to occur throughout the Fitzroy River. All waterways within the SGIC SDA have no previous occurrence records for the species and are outside of the known range, therefore is unlikely to occur.		
				Northern Section: The species has been historically Fitzroy River turtle is known to occur throughout upper, mid, and lower reaches of the Fitzroy River and throughout the basin including the reach at Site 23. Site 23 is unlikely to support aggregated nesting, however isolated nesting may occur. At sites 22, 25, 31, and 32, the species is unlikely to occur due to a lack of available surface water.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
Threatened shark species						
<i>Anoxypristis cuspidata</i> Narrow sawfish	V, Mig	NL	Distribution: Known to occur throughout northern Australia, and within Queensland as far south as MacKay (Florida Museum 2022). No previous occurrence records for the species occur within the study area (ALA 2022) Habitat: The species inhabits shallow coastal environments and estuarine waters but does not occur into freshwaters.	N/A	Unlikely to occur	N/A
<i>Pristis zijsron</i> Green sawfish	V, Mig	NL	Distribution: Known to occur throughout northern Australia, and within its most current distribution in Queensland is as far south as the Whitsundays (COA 2015). Habitat: The species inhabits inshore coastal environments and estuarine creeks but does not occur into freshwaters (COA 2015).	N/A	Unlikely to occur	N/A
Threatened insect species						
<i>Jalmenus eubulus</i> Pale imperial hairstreak	V	NL	Distribution: In Queensland, the species is restricted to the seasonally sub-humid central and southern areas of the state (Eastwood <i>et al.</i> 2008). Habitat: Prefers mature habitat dominated by brigalow (<i>Acacia harpophylla</i>) and bulloak (<i>Casuarina cristata</i>) on clay soils on flat to gently undulating plains, usually with scattered emergent eucalypts (Eastwood <i>et al.</i> 2008).	Unlikely to occur	May occur	N/A
				GSDA: One individual was historically recorded within the desktop search extent in 1981. No woodland habitats retaining brigalow or bulloak were recorded within the study area.		
				SGIC SDA: The species has two records within the desktop search extent, the most recent recorded in 1995. Suitable habitat was recorded within remnant brigalow woodland within the study area; however, given the species was recorded in 1995 and the species is restricted to the seasonally sub-humid central and southern areas of Queensland, the species likelihood of occurring within the study area is considered low.		
Migratory species						
<i>Actitis hypoleucos</i> Common sandpiper	SL	Mig	Found along all coastlines of Australia and in many areas inland, the common sandpiper is widespread in small numbers. The population when in Australia is concentrated in northern and western Australia (DCCEE 2022).	Unlikely to occur	May occur	May occur
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
				SGIC SDA: The species has not been historically recorded within the desktop search extent. However, potentially suitable foraging habitat was recorded within tidal and non-tidal habitats within the study area.		
				Northern Section: The species has not been historically recorded within the desktop search extent. However, potentially suitable		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
				foraging habitat was recorded along Fitzroy River and at Lower Gracemere Lagoon.		
<i>Apus pacificus</i> Fork-tailed swift	SL	Mig	In Australia, the species mostly occur over inland plains but sometimes above foothills or in coastal areas, cliffs and beaches and also over islands and sometimes well out to sea. The species can also occur over settled areas, including towns, urban areas and cities. The species has been recorded mostly occur over dry or open habitats, including riparian woodland and tea-tree swamps, low scrub, heathland or saltmarsh. They are also found at treeless grassland and sandplains covered with spinifex, open farmland and inland and coastal sand-dunes. The sometimes occur above rainforests, wet sclerophyll forest or open forest or plantations of pines (DCCEEW 2022).	Likely to occur	Likely to occur	Likely to occur
				GSDA: The species has been historically recorded within the desktop search extent. The species has potential to forage aerially across the study area.		
				SGIC SDA: The species has two records within the desktop search extent. The species has potential to forage aerially across the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent. The species has potential to forage aerially across the study area.		
<i>Arenaria interpres</i> Ruddy turnstone	SL	Mig	This species is widespread within Australia during its non-breeding period of the year It is found in most coastal regions, with occasional records of inland populations. It strongly prefers rocky shores or beaches where there are large deposits of rotting seaweed (DCCEEW 2022).	Unlikely to occur	May occur	N/A
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area. However, the species preferred habitats (i.e. rocky shores and beaches) were not recorded within the study area.		
				SGIC SDA: The species has been historically recorded within the desktop search extent.		
<i>Calidris acuminata</i> Sharp-tailed sandpiper	SL	Mig	Most of the population migrates to Australia, mostly to the south-east and are widespread in both inland and coastal locations and in both freshwater and saline habitats. Many inland records are of birds on passage. In Queensland, they are recorded in most regions, being widespread along much of the coast and are very sparsely scattered inland (DCCEEW 2022).	Likely to occur	Likely to occur	Likely to occur
				GSDA: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded within the study area (i.e. modified floodplains when inundated with water).		
				SGIC SDA: The species has 43 records within the desktop search extent and potentially suitable foraging habitat, such as freshwater and saline habitats were recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded at Lower Gracemere Lagoon.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
<i>Calidris alba</i> Sanderling	SL	Mig	The species occurs in coastal areas around Australia mostly on open sandy beaches exposed to open sea-swell. Scattered records occur in mid-east and south-east Queensland from Townsville and Alva Beach, south to Fraser Island, and around Moreton Bay and Point Danger, including on offshore islands. Rarely, they are recorded in near-coastal wetlands, such as lagoons, hypersaline lakes, saltponds and samphire flats. There are rare inland records from sandy shores of ephemeral brackish lakes and brackish river-pools (DCCEEW 2022).	Unlikely to occur	N/A	N/A
<i>Calidris falcinellus</i> Broad-billed sandpiper	SL	Mig	The species is most common in north coast of Australia. In Queensland the species has been recorded at Mackay and surrounding regions. The species is a non-breeding visitor to Australia where it occurs in sheltered coasts including estuarine mudflats, saltmarshes, freshwater lagoons. The species has been recorded in creeks, swamps and lakes near the coast with rare inland records (DCCEEW 2022).	Unlikely to occur	Likely to occur	N/A
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
<i>Calidris melanotos</i> Pectoral sandpiper	SL	Mig	Prefers shallow fresh to saline wetlands. The species is found at coastal lagoons, estuaries, bays, swamps, lakes, inundated grasslands, saltmarshes, river pools, creeks, floodplains and artificial wetlands. The species is usually found in coastal or near coastal habitat but occasionally found further inland. It prefers wetlands that have open fringing mudflats and low, emergent or fringing vegetation (DCCEEW 2022).	May occur	May occur	May occur
				GSDA: The species has not been historically recorded within the desktop search extent; however, potentially suitable foraging habitat for the species was recorded within the study area (i.e. modified floodplains when inundated with water).		
				SGIC SDA: The species has not been historically recorded within the desktop search extent; however, potentially suitable foraging habitat was recorded within the study area.		
				Northern Section: The species has not been historically recorded within the desktop search extent; however, potentially suitable foraging habitat for the species was recorded at Lower Gracemere Lagoon.		
<i>Calidris ruficollis</i> Red-necked stint	SL	Mig	The species is distributed along most of the Australian coastline where they occur in coastal areas, including in sheltered inlets, bays, lagoons and estuaries with intertidal mudflats. They also occur in saltworks and sewage farms; saltmarsh; ephemeral or permanent shallow wetlands near the coast or inland, including lagoons, lakes, swamps,	May occur	Likely to occur	May occur
				GSDA: The species has been historically recorded within the desktop search extent. Potentially suitable foraging habitat was recorded within the study area (i.e. modified floodplains when inundated with water); however, the species are known to occasionally occur within inundated grasslands.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			riverbanks, waterholes, bore drains, dams, soaks and pools in salt flats. They sometimes use flooded paddocks or damp grasslands. They have occasionally been recorded on dry gibber plains, with little or no perennial vegetation (DCCEEW 2022).	SGIC SDA: The species has six records within the desktop search extent and potentially suitable foraging habitat was recorded within the study area.		
				Northern Section: The species has not been historically recorded within the desktop search extent; however, potentially suitable habitat was recorded within the study area.		
<i>Calonectris leucomelas</i> Streaked shearwater	SL	Mig	Streaked shearwaters breed on islands off the southern Russian, east China, Korea and Taiwan. In the non-breeding season, they migrate to waters off New Guinea and around northern Australia.	N/A	N/A	Unlikely to occur
				Northern Section: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
<i>Charadrius dubius</i> Little ringed plover	SL	Mig	A low number of records of this species occur in across coastal Australia, preferencing habitat with mudflats to forage in (ALA 2022).	N/A	May occur	Unlikely to occur
				SGIC SDA: The species has been historically recorded within the desktop search extent; however, limited potentially suitable foraging habitat was recorded within the study area.		
				Northern Section: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
<i>Chlidonias leucopterus</i> White-winged black tern	SL	Mig	In Australia, this species is widespread along the northern, central-eastern and south-western coasts of Australia, but has scattered records of populations along southern Australia (DCCEEW 2022). They inhabit coastal, saline, brackish and freshwater wetlands, but rarely occur in inland wetlands (DCCEEW 2022).	Unlikely	Likely to occur	Likely to occur
				GSDA: The species has been historically recorded within the desktop search extent; however, no potentially suitable foraging habitat was recorded within the study area.		
				SGIC SDA: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded at Lower Gracemere Lagoon.		
<i>Cuculus optatus</i> Oriental cuckoo	SL	Mig	The species inhabits coastal regions across northern and eastern Australia, as well as offshore islands. Species utilises a range of vegetated habitats, including monsoon	Likely to occur	Likely to occur	N/A
				GSDA: The species has been historically recorded within the desktop search extent and suitable habitat occurs within the study area.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			rainforests, wet sclerophyll forests, open woodlands and along the edges of forests (Australian Wildlife 2022).	SGIC SDA: The species has been historically recorded within the desktop search extent and potentially suitable vegetated habitats were recorded within the study area.		
<i>Gallinago hardwickii</i> Latham's snipe	SL	Mig	The species inhabits permanent and ephemeral freshwater wetlands with low, dense vegetation (DAWE 2020). Species sometimes occurs in habitats that have saline or brackish water, such as saltmarshes, mangrove creeks, around bays and beaches (DCCEEW 2022).	Likely to occur	Likely to occur	Likely to occur
				GSDA: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat for the species was recorded within the study area (i.e. modified floodplains when inundated with water).		
				SGIC SDA: The species has 45 records within the desktop search extent and suitable foraging habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded at Lower Gracemere Lagoon.		
<i>Gallinago megala</i> Swinhoe's snipe	SL	Mig	The species is a non-breeding visitor to Australia. Few definite records exist for Swinho's Snipe in Australia. In Queensland specimens have been taken at Normanton. The species has also been sighted at Mount Isa. The species's preferred habitat specific to Australia includes the dense clumps of grass and rushes round the edges of fresh and brackish wetlands. This includes swamps, billabongs, river pools, small streams and sewage ponds. They are also found in drying claypans and inundated plains pitted with crab holes (DCCEEW 2022).	May occur	N/A	N/A
				GSDA: The species has not been historically recorded within the desktop search extent; however, potentially suitable foraging habitat for the species was recorded within the study area (i.e. modified floodplains when inundated with water).		
<i>Gallinago stenura</i> Pin-tailed snipe	SL	Mig	The species is a non-breeding visitor to Australia. Within Australia, the distribution of the species is not well understood. In Queensland there are confirmed records from the Top End. During the non-breeding period the species occurs most often in or at the edges of shallow freshwater swamps, ponds and lakes with emergent, sparse to dense cover of grass/sedge or other vegetation. The species is also found in drier, more open wetlands such as claypans in more arid parts of species' range. It is also commonly seen at sewage ponds; not normally in saline or inter-tidal wetlands (DCCEEW 2022).	May occur	N/A	N/A
				GSDA: The species has not been historically recorded within the desktop search extent; however, potentially suitable foraging habitat for the species was recorded within the study area (i.e. modified floodplains when inundated with water).		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
<i>Gelochelidon nilotica</i> Gull-billed tern	SL	Mig	In Australia, this species is widely distributed across coastal and inland mainland Australia, with records in each state, inhabiting coastal shores as well as inland freshwater wetlands, lakes and marshes (ALA 2022)	May occur	Likely to occur	Likely to occur
				GSDA: The species has been historically recorded within the desktop search extent; however, suitable habitat for the species is limited.		
				SGIC SDA: The species has 19 records within the desktop search extent and potentially suitable foraging habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded along Fitzroy River.		
<i>Hydroprogne caspia</i> Caspian tern	SL	Mig	The Caspian tern is mostly found in sheltered coastal embayments (harbours, lagoons, inlets, bays, estuaries and river deltas) and those with sandy or muddy margins are preferred. They also occur on near-coastal or inland terrestrial wetlands that are either fresh or saline, especially lakes (including ephemeral lakes), waterholes, reservoirs, rivers and creeks. They also use artificial wetlands, including reservoirs, sewage ponds and saltworks. Large numbers may shelter along the coast, behind coastal sand-dunes or coastal lakes during rough weather and have been recorded inland after storms (DCCEEW 2022).	N/A	Likely to occur	Likely to occur
				SGIC SDA: The species has 41 records within the desktop search extent and potentially suitable foraging habitat (i.e. fresh and saline wetlands) was record within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded along Fitzroy River.		
<i>Limnodromus semipalmatus</i> Asian dowitcher	SL	Mig	In Australia, a low number of records of this species have been recorded across northern and eastern Australian coastlines, favouring coastal waters and mudflats for foraging (ALA 2022).	Unlikely to occur	May occur	N/A
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
				SGIC SDA: The species has not been historically recorded within the desktop search extent; however, limited suitable habitat was recorded within the study area.		
<i>Limosa lapponica</i> Bar-tailed godwit	SL	Mig	The species has been recorded in coastal areas of all Australian states. The species is a non-breeding visitor to Australia where it occurs in coastal habitats such as large intertidal sandflats, banks, mudflats, estuaries and bays. The species is rarely found on inland wetlands (DCCEEW 2022).	Unlikely to occur	May occur	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
				SGIC SDA: The species has not been historically recorded within the desktop search extent; however, limited suitable habitat was recorded within the study area.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
				Northern Section: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
<i>Limosa limosa</i> Black-tailed godwit	SL	Mig	In Australia, this species has been recorded in coastal areas of all Australian states, as well as in inland freshwater environments with habitat ranging from coastal bays, estuaries and sandflats to inland wetlands, lagoons and grasslands (ALA 2022).	Unlikely to occur	Likely to occur	Likely to occur
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
				SGIC SDA: The species has 23 records within the desktop search extent and potentially suitable foraging habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded at Lower Gracemere Lagoon.		
<i>Monarcha melanopsis</i> Black-faced monarch	SL	Mig	Species inhabits rainforest ecosystems that include semi-deciduous vine thickets, complex notophyll vine-forests, tropical rainforests, subtropical rainforests, mesophyll thicket/shrubland, warm and cool temperate rainforest, and dry rainforest (DCCEEW 2022).	Unlikely to occur	Unlikely to occur	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
				SGIC SDA: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent; however, no suitable habitat was recorded within the study area.		
<i>Monarcha trivirgatus</i> Spectacled monarch	SL	Mig	The species prefers thick understory habitats in rainforests, wet sclerophyll forests and mangroves (Birdlife Australia 2022).	Unlikely to occur	Likely to occur	Unlikely to occur
				GSDA: The species has been historically recorded within the study area; No rainforest habitats occur within the study area; however, no suitable habitat was recorded within the study area.		
				SGIC SDA: The species has been historically recorded within the desktop search extent. Potentially suitable habitat (i.e. mangroves) was recorded within the study area.		
				Northern Section: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
<i>Myiagra cyanoleuca</i> Satin flycatcher	SL	Mig	The species occurs in heavily vegetated gullies in eucalypt-dominated forests and taller woodlands, typically near wetlands and watercourses (DCCEEW 2022).	Likely to occur	Likely to occur	May occur
				GSDA: The species has been historically recorded within the desktop search extent and suitable foraging habitat was recorded within the study area.		
				SGIC SDA: The species has been historically recorded within the desktop search extent and potentially suitable habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent; however, marginally suitable habitat was recorded within the Northern Section study area		
<i>Numenius minutus</i> Little curlew	SL	Mig	The species is a non-breeding visitor to Australia where the species generally spends the season in northern Australia from Port Hedland, Western Australia to the Queensland coast. There are records of the species from inland Australia, and widespread but scattered records on the east coast. The species occurs in dry grassland and sedgeland including dry floodplains and black soil plains with scattered shallow freshwater pools or seasonally inundated areas, open woodlands with a grassy or burnt understory, dry saltmarshes, mudflats or sandflats etc (DCCEEW 2022).	Unlikely to occur	Likely to occur	Likely to occur
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
				SGIC SDA: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded at Lower Gracemere Lagoon.		
<i>Numenius phaeopus</i> Whimbrel	SL	Mig	The whimbrel is often found on the intertidal mudflats of sheltered coasts. It is also found in harbours, lagoons, estuaries and river deltas, often those with mangroves, but also open, unvegetated mudflats. It is occasionally found on sandy or rocky beaches, on coral or rocky islets, or on intertidal reefs and platforms. It has been infrequently recorded using saline or brackish lakes near coastal areas. It also used saltflats with saltmarsh, or saline grasslands with standing water left after high springtides, and in similar habitats in sewage farms and salt fields (DoE 2015).	Unlikely to occur	May occur	N/A
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
				SGIC SDA: The species has been historically recorded within the desktop search extent; however, limited suitable foraging habitat was recorded within the study area.		
<i>Pandion haliaetus</i> Osprey	SL	Mig	The species occur in littoral and coastal habitats and terrestrial wetlands of tropical and temperate Australia and offshore islands. They are mostly found in coastal areas but occasionally travel inland along major rivers. They require	Unlikely to occur	Likely to occur	Likely to occur
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			extensive areas of open fresh, brackish or saline water for foraging (DCCEEW 2022).	SGIC SDA: The species has been historically recorded within the desktop search extent and potentially suitable habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded along Fitzroy River.		
<i>Plegadis falcinellus</i> Glossy ibis	SL	Mig	The Glossy Ibi" preferred habitat for foraging and breeding are freshwater marshes at the edges of lakes and rivers, lagoons, flood-plains, wet meadows, swamps, reservoirs, sewage ponds, rice-fields and cultivated areas under irrigation. The species is occasionally found in coastal locations such as estuaries, deltas, saltmarshes and coastal lagoons. Within Australia, the largest contiguous areas of prime habitat is inland and northern floodplains (DCCEEW 2022)	Likely to occur	Likely to occur	Likely to occur
				GSDA: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat for the species was recorded within the study area (i.e. modified floodplains when inundated with water).		
				SGIC SDA: The species has 69 records within the desktop search extent and potentially suitable habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded at Lower Gracemere Lagoon.		
<i>Pluvialis fulva</i> Pacific golden plover	SL	Mig	The species is widespread in coastal regions, with some inland records in all states across Australia. During non-breeding ground in Australia, the species occurs in coastal habitats including beaches, mudflats, sandflats, estuaries and lagoons. The species occasionally occurs in inland wetlands such as lakes, billabongs, pools, swamps, especially those with muddy margins and submerged or emergent vegetation, grassed paddocks, crops or recently burnt areas (DCCEEW 2022).	May occur	Likely to occur	May occur
				GSDA: The species has been historically recorded within the desktop search extent. Potentially suitable foraging habitat was recorded within the study area (i.e. modified floodplains when inundated with water); however, the species is less often recorded in terrestrial habitats.		
				SGIC SDA: The species has been historically recorded within the desktop search extent and potentially suitable habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent. Potentially suitable foraging habitat was recorded at Lower Gracemere Lagoon; however, the species is less often recorded in terrestrial habitats.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
<i>Pluvialis squatarola</i> Grey plover	SL	Mig	The species has been recorded in all Australian states where it is most prevalent on the western and southern coastlines. The species is a non-breeding visitor to Australia where it occurs almost entirely in coastal areas including sheltered embayments, estuaries and lagoons, mudflats, sandflats. The species has been recorded in terrestrial wetlands including near-coastal lakes, swamps (DCCEEW 2022).	May occur	N/A	N/A
				GSDA: The species has been historically recorded within the desktop search extent. Potentially suitable foraging habitat was recorded within the study area (i.e. modified floodplains when inundated with water); however, the species is less often recorded in terrestrial habitats.		
<i>Rhipidura rufifrons</i> Rufous fantail	SL	Mig	Species inhabits wet sclerophyll forests, often in gullies dominated by eucalypts and usually within a dense shrubby understorey that often includes ferns (DCCEEW 2022).	May occur	May occur	May occur
				GSDA: The species has been historically recorded within the desktop search extent; however, limited suitable habitat was recorded within the study area. Potentially suitable habitat occurs within dense fringing riparian vegetation.		
				SGIC SDA: The species has 16 records within the desktop search extent; however, limited suitable habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent; however, limited suitable habitat was recorded within the study area. Potentially suitable habitat occurs within dense fringing riparian vegetation.		
<i>Sterna hirundo</i> Common tern	SL	Mig	This species is a non-breeding visitor to Australia and is found across the majority of coastal Australia, occupying sandy shores, coastal islands and inlets (ALA 2022).	Unlikely to occur	N/A	N/A
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
<i>Sternula albifrons</i> Little tern	SL	Mig	The species is widespread across coastal Australia. The species inhabits sheltered coastal environments including lagoons, estuaries, river mouths, deltas, lakes, bays etc especially those with exposed sandbanks, sand-spits and exposed ocean beaches (DCCEEW 2022).	Unlikely to occur	May occur	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
				SGIC SDA: The species has been historically recorded within the desktop search extent; however, limited suitable habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded at Lower Gracemere Lagoon.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
<i>Sula leucogaster</i> Brown booby	SL	Mig	In Australia, this species is found across the northern and eastern coastline, occupying coastal habitat, near shore waters and inshore islands from northern Western Australia to southern New South Wales (ALA 2022).	Unlikely to occur	N/A	N/A
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
<i>Thalasseus bergii</i> Crested tern	SL	Mig	This species is widespread across the coastal regions of Australia, occurring in all coastal states and territories, inhabiting coastal bays, lakes, large rivers and inlets (ALA, 2022).	Unlikely to occur	May occur	N/A
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
				SGIC SDA: The species has been historically recorded within the desktop search extent; however, limited suitable foraging habitat was recorded within the study area.		
<i>Tringa brevipes</i> Grey-tailed tattler	SL	Mig	In Queensland, the species is found along the entire coast. Inland records include Burdekin Weir, Charters Towers and Mount Isa; however, these are rare with the species preferring coastal habitats (DCCEEW 2022). The species inhabits sheltered coasts with reefs, rock platforms, intertidal mudflats, embayments, estuaries, coastal lagoons especially fringed with mangroves. In near coastal areas they can be found around lakes, ponds, riverbanks and rock pools (DCCEEW 2022).	Unlikely to occur	N/A	Unlikely to occur
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded at Lower Gracemere Lagoon.		
<i>Tringa incana</i> Wandering tattler	SL	Mig	In Australia, this species occupies the eastern coastline from Northern Queensland to Victoria, preferencing coastal habitat with rocky shores or inshore reefs to forage on aquatic vertebrates (ALA 2022).	Unlikely to occur	May occur	N/A
				GSDA: The species has not been historically recorded within the desktop search extent. No suitable habitat was recorded within the study area.		
				SGIC SDA: The species has been historically recorded within the desktop search extent; however, no suitable foraging habitat was recorded within the study area.		
<i>Tringa nebularia</i> Common greenshank	SL	Mig	The species is a non-breeding visitor to Australia where it has been recorded in most coastal regions in Queensland. The species is found in a wide variety of inland wetlands and sheltered coastal habitats of varying salinity. These include sheltered coastal habitats with mudflats, saltmarsh, mangroves or seagrass. The species also occurs in terrestrial wetlands including lakes, swamps, dams, rivers, creeks, billabongs, the edges of the wetlands are generally	Likely to occur	Likely to occur	Likely to occur
				GSDA: The species has been historically recorded within the desktop search extent. Suitable foraging habitat was recorded along Larcom Creek.		
				SGIC SDA: The species has 20 records within the desktop search extent and potentially suitable foraging habitat was recorded within the study area.		

Scientific name	Status		Habitat requirements	Likelihood of occurrence		
	NC Act	EPBC Act		GSDA	SGIC SDA	NS
			of mud, clay or sand and may be bare or with vegetation (DCCEEW 2022).	Northern Section: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded at Lower Gracemere Lagoon.		
<i>Tringa stagnatilis</i> Marsh sandpiper	SL	Mig	The species inhabits permanent and ephemeral wetlands, including swamps and billabongs (DAWE 2020). Species generally forages in shallow water and on bare soft mud edges of wetlands (DCCEEW 2022).	Likely to occur	Likely to occur	Likely to occur
				GSDA: The species has been historically recorded within the desktop search extent. Suitable foraging habitat was recorded within the study area (i.e. Larcom Creek and modified floodplains when inundated within water).		
				SGIC SDA: The species has 60 records within the desktop search extent and potentially suitable foraging habitat was recorded within the study area.		
				Northern Section: The species has been historically recorded within the desktop search extent and potentially suitable foraging habitat was recorded at Lower Gracemere Lagoon.		
<i>Xenus cinereus</i> Terek sandpiper	SL	Mig	The species is widespread across coastal northern and eastern Australia. The Terek sandpiper is a non-breeding visitor to Australia where it inhabits intertidal mudflats, estuaries, embayments, harbours or lagoons and occasionally on sandy beaches and rocky areas (DCCEEW 2022).	May occur	May occur	N/A
				GSDA: The species has been historically recorded within the desktop search extent. Potentially suitable foraging habitat was recorded within the study area (i.e. modified floodplains when inundated with water); however, the species very occasionally use inundated grasslands.		
				SGIC SDA: The species has been historically recorded within the desktop search extent; however, limited suitable foraging habitat was recorded within the study area.		
Key: CE/CR – critically endangered; E – endangered; V – vulnerable; NT – near threatened; Mig – migratory; Mar – Marine; SL – special least concern; LC – least concern; NL – not listed; N/A – not applicable						

Appendix F

**Criteria used to map habitat for
conservation significant fauna species**

Species	Habitat description in Commonwealth/State listing advise	Criteria use to map habitat
<p><i>Calidris canutus</i> Curlew sandpiper</p>	<p>Curlew sandpiper habitat has been defined based on the formal habitat definition in the Commonwealth listing advice for the species (DoE 2015a).</p> <p>During the non-breeding period and breeding season for non-breeding birds, the species occurs within suitable habitats along the coast and inland Australia (DoE 2015a). In Australia, the species occurs on intertidal mudflats in sheltered coastal areas, including estuaries, and non-tidal swamps, including lakes and lagoons near the coast (DoE 2015a). The species forages mainly on invertebrates, including worms, molluscs, crustaceans, and insects in tidal and non-tidal habitats, such as mudflats, sandy shores, flooded paddocks and inundated saltflats (DoE 2015a). The curlew sandpiper roosts around coastal or near-coastal lagoons and other wetlands on open substrates. The species has been recorded roosting in mangroves (DoE 2015a).</p> <p>The breeding range of the curlew sandpiper is restricted to the Arctic of northern Siberia. The species departs breeding grounds in July and August, stops over in northern Australia and then continues the direct route to south-east Australia in late August and September. The species return to breeding grounds begins in March (DoE 2015a).</p>	<p>Suitable habitat for the species was observed in areas where the pipeline alignment intersects tidal (i.e. mangroves, saltmarshes and mudflats) and non-tidal habitats (i.e. seasonal wetlands).</p> <p>Mapping of curlew sandpiper habitat has been based on DoR and field verified RE communities, habitat assessments and high-resolution aerial imagery. The following habitat types were mapped as predicted habitat for the curlew sandpiper:</p> <ul style="list-style-type: none"> – Estuarine environments; and – Freshwater waterbodies and seasonal wetlands.
<p><i>Calyptorhynchus lathamii</i> Glossy black-cockatoo</p>	<p>Glossy black-cockatoo habitat has been defined based on the formal definition outlined in the essential habitat factors listed by Queensland DoR (2022b).</p> <p>Essential habitat factors for the glossy black-cockatoo as detailed by the Queensland DoR include: Lowland and highland eucalypt forest and woodland, including riparian, <i>Callitris</i> and brigalow scrub areas, with <i>Casuarina</i> (<i>C. glauca</i>, <i>C. cristata</i>)/<i>Allocasuarina</i> spp. (<i>A. torulosa</i>, <i>A. littoralis</i>). Nest in large vertical hollow (1-2 m deep, 25-50 cm diameter) up to 28 m above ground in tall slightly isolated tree usually near principal food source (<i>Allocasuarina/Casuarina</i>).</p>	<p>Suitable foraging and nesting habitat is restricted in the south-east extent of the GSDA pipeline alignment. Narrow strips of <i>Casuarina cunninghamiana</i> were recorded along riparian woodland areas, providing potentially suitable foraging habitat for the species. Hollow-bearing trees were moderately low within woodland areas in proximity to suitable foraging habitat, providing potential suitable nesting habitat for the species.</p> <p>Mapping of glossy black-cockatoo habitat has been based on DoR and field verified RE communities, habitat assessments and high-resolution aerial imagery. The following habitat types were mapped as predicted habitat for the glossy black-cockatoo:</p> <ul style="list-style-type: none"> – Mature eucalypt woodland; and – Fringing riparian vegetation.
<p><i>Crocodylus porosus</i> Estuarine crocodile</p>	<p>The species is found in a wide range of habitats including rivers, estuaries, creeks, swamps, lagoons and billabongs. The species usually inhabits the lower estuarine sections of rivers and creeks, within Queensland the species is usually restricted to coastal waterways and floodplain wetlands (DCCEE 2022).</p> <p>Preferred nesting habitat for the species includes elevated, isolated freshwater swamps that are not subject to tidal waters, whilst floating rafts of vegetation also provides suitable habitat for nesting (DCCEE 2022). Nesting usually occurs within 10 m of permanent water above the water mark to prevent inundation of the nest by floodwaters (DES 2022b).</p>	<p>Due to the species' aquatic and migratory nature, the species has no strict reliance on defined foraging habitats. Foraging habitat has not been mapped on that basis.</p>
<p><i>Denisonia maculata</i></p>	<p>Ornamental snake habitat has been defined based on the formal habitat definition in the</p>	<p>Suitable habitat for the ornamental snake was recorded in vegetated areas retaining <i>Eucalyptus</i></p>

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Ornamental snake	<p>Commonwealth listing advice for the species (DAWE 2022; DoE 2014).</p> <p>The ornamental snake's preferred habitat is within, or close to, habitat that is favoured by its prey—frogs. The species is known to prefer woodlands and open forests associated with moist areas, particularly gilgai (melon-hole) mounds and depressions in Queensland Regional Ecosystem Land Zone 4, but also lake margins and wetlands (Brigalow Belt Reptiles Workshop 2010). Gilgai formations are found where deep-cracking alluvial soils with high clay contents occur (Brigalow Belt Reptiles Workshop 2010). Ornamental snake habitat is likely to be found in Brigalow (<i>Acacia harpophylla</i>), Gidgee (<i>Acacia cambagei</i>), Blackwood (<i>Acacia argyrodendron</i>) or Coolibah (<i>Eucalyptus coolabah</i>)-dominated vegetation communities, or pure grassland associated with gilgais (Brigalow Belt Reptiles Workshop 2010). Whilst the species shows a preference for moist areas, and there are records from riparian areas, the species' presumed preference for riparian habitat is questionable (Brigalow Belt Reptiles Workshop 2010). The most common Queensland Regional Ecosystems (RE) in which the species has been recorded is RE 11.4.3. Other common RE types where the species has been recorded are (Brigalow Belt Reptiles Workshop 2010):</p> <p>11.4.3 Open forest dominated by Brigalow and/or Belah clay soils not associated with current alluvium.</p> <p>11.4.6 Gidgee woodland clay soils not associated with current alluvium.</p> <p>11.4.8 Woodland to open forest dominated by Dawson Gum (<i>Eucalyptus cambageana</i>) and Brigalow or, sometimes in the north of the species' range, Blackwood/Black Gidgee. Yapunyah (<i>E. thozetiana</i>) is sometimes present on shallower clay soils not associated with current alluvium.</p> <p>11.4.9 Open forest, occasionally woodland, dominated by Brigalow on clay soils not associated with current alluvium. A low tree mid-storey of yellow-wood (<i>Terminalia oblongata</i>) and False Sandalwood (<i>Eremophila mitchellii</i>) is usually present. Belah sometimes dominates in place of Brigalow in the overstorey and Bauhinia (<i>Lysiphyllum cunninghamii</i>) sometimes co-dominates.</p> <p>Other Queensland Regional Ecosystems where the species has been recorded are:</p> <p>11.3.3 Coolibah woodland adjacent to a large, treeless, ephemeral wetland on alluvium (river and creek flats).</p> <p>11.5.16 Brigalow and/or Belah open-forest in depressions in Cainozoic old loamy and sandy plains. Associated with gilgai with one-metre local relief and 5–6 m in diameter.</p> <p>Habitat critical to the survival of the species</p> <p>There is no formal definition of habitat critical to the survival of the ornamental snake. The definition outlined in the Significant impact guidelines 1.1 (DoE 2013a) has been applied.</p>	<p><i>coolabah</i> and brigalow woodlands retaining seasonally inundated habitats (i.e. gilgais) within the SGIC SDA study area. Suitable ground-level microhabitats, such as ground logs, were recorded within <i>E. coolabah</i> woodlands. The Arup (2008) field surveys recorded two individuals within <i>E. coolabah</i> woodlands near Casuarina Road, Midgee. Suitable ground-level microhabitats such as cracking clays, ground logs, woody debris and rocks were low within remnant brigalow areas; however, these ground-level microhabitats are very sparse to absent within regrowth brigalow areas, and are heavily altered by intensive cultivation, and cattle grazing and trampling.</p> <p>Mapping of ornamental snake habitat has been based on DoR and field verified RE communities, species records, habitat assessments and high-resolution aerial imagery. Vegetated areas retaining <i>E. coolabah</i> woodland near Casuarina Road, Midgee, and Brigalow (<i>Acacia harpophylla</i>) woodland, was mapped as predicted habitat for the ornamental snake.</p>

Species	Habitat description in Commonwealth/State listing advise	Criteria use to map habitat
<p><i>Elseya albagula</i> White-throated snapping turtle</p>	<p>Habitat that is critical to the survival of the White-throated snapping turtle is defined as per <i>The National Recovery Plan for the White-throated Snapping Turtle (Elseya albagula)</i> (Commonwealth of Australia 2020) as:</p> <ul style="list-style-type: none"> – Parts of riverine systems with permanent water, including pools, within the species' distribution that contain shelter and refuges (e.g. bank overhangs, overhanging riparian vegetation, macrophyte beds, moderate to high densities of submerged boulders and/or log jams). – All currently known and new aggregated nesting sites (all nesting sites should be considered to be part of an aggregation unless it can be demonstrated otherwise). 	<p>Due to the species' aquatic nature, the species has no strict reliance on defined foraging habitats. Foraging habitat has not been mapped on that basis.</p>
<p><i>Epthianura crocea macgregori</i> Yellow chat (Dawson)</p>	<p>Yellow chat (Dawson) habitat has been defined based on the formal habitat definition in the Commonwealth listing advice for the species (DCCEEW 2022) and <i>Yellow chat (Capricorn subspecies) Epthianura crocea macgregori recovery plan</i> (Houston and Melzer 2008).</p> <p>It is distributed in coastal areas of central Queensland, with two separate breeding populations being located on the Torrila Plain and the Fitzroy River Delta (DoE 2022). The yellow chat (Dawson) inhabits marine wetlands that are subjected to extensive seasonal inundation. They often occupy marine plains that have a network of shallow drainage channels with a large variety of vegetation (DoE 2022). Nests are often found close to the ground in grasses and/or rushes while supporting a small cup shape. These often consist of 2 or 3 eggs (DoE 2022). The diet consists of insects, including moths, damselflies, caterpillars, mosquito larvae as well as other invertebrates such as spiders. These will often be targeted from surface of shallow water, stems of rushes, grasses and occasionally low shrubs (DoE 2022).</p>	<p>Suitable habitat for the species was recorded in vegetated marine plains near Inkerman Creek and Twelve Mile Creek and sedgeland to grasslands on Quaternary plains.</p> <p>Mapping of yellow chat (Dawson) habitat has been based on DoR and field verified RE communities, habitat assessments and high-resolution aerial imagery. Suitable habitat within the following RE communities has been mapped as predicted habitat for the yellow chat (Dawson):</p> <ul style="list-style-type: none"> – 11.1.1 <i>Sporobolus virginicus</i> grassland on marine clay plains – 11.1.2 Samphire forbland on marine clay plains – 11.3.27 Freshwater wetlands.
<p><i>Geophaps scripta scripta</i> Squatter pigeon (southern)</p>	<p>Squatter pigeon (southern) habitat has been defined based on the formal habitat definition in the Commonwealth listing advice for the species (DCCEEW 2022).</p> <p>Habitat is generally defined as open-forests to sparse, open-woodlands and scrub that are (DCCEEW 2022; Squatter Pigeon Workshop 2011):</p> <ul style="list-style-type: none"> – Mostly dominated in the overstorey by <i>Eucalyptus</i>, <i>Corymbia</i>, <i>Acacia</i> or <i>Callitris</i> species – Remnant, regrowth or partly modified vegetation communities, and – Within 3 km of water bodies or courses. <p>Breeding habitat: Occurs on stony rises occurring on sandy or gravelly soils, within 1 km of a suitable, permanent waterbody (Squatter Pigeon Workshop 2011).</p> <p>Foraging habitat: Any remnant or regrowth open-forest to sparse, open-woodland or scrub dominated by <i>Eucalyptus</i>, <i>Corymbia</i>, <i>Acacia</i> or <i>Callitris</i> species, on sandy or gravelly soils, within 3</p>	<p>Mapping of squatter pigeon (southern) habitat was based on remnant and regrowth RE communities that are identified by the Queensland (DoR) essential habitat mapping framework as essential habitat factors for the squatter pigeon (southern) as a basis for mapping. This was differentiated into breeding and foraging habitat based on the categories below.</p> <p>Breeding habitat: Remnant and regrowth open forest to woodland in the following REs that occur on suitable (stony) Land Zones and occur within 1 km of permanent waterbody. The Commonwealth listing advice nominates only Land Zone 5 and 7 as suitable breeding habitat. As no Land Zone 5 or 7 occurs within proximity of the local records, Land Zone 11 REs have been included due to their suitable stony substrate:</p> <ul style="list-style-type: none"> – 11.11.4 <i>Eucalyptus crebra</i> woodland on old sedimentary rocks with vary degrees of metamorphism and folding. Coastal ranges

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	<p>km of a suitable, permanent or seasonal waterbody (Squatter Pigeon Workshop 2011).</p> <p>In Queensland, the Commonwealth listing advice specifically nominates RE Land Zone 5 (well-draining, sandy or loamy soils on low, gently sloping, flat to undulating plains and foothills) and RE Land Zone 7 (lateritic (duplex) soils on low "jump-up" and escarpments) as suitable foraging and breeding habitat for the species. Ground-level vegetation is typically patchy with vegetation cover rarely exceeding 33% (Squatter Pigeon Workshop 2011).</p>	<ul style="list-style-type: none"> – 11.11.15 <i>Eucalyptus crebra</i> woodland to open woodland on deformed and metamorphosed sediments and interbedded volcanics – 11.11.16 <i>Eucalyptus cambageana</i>, <i>Acacia harpophylla</i> open forest to woodland on old sedimentary rocks with varying degrees of metamorphism and folding. Lowlands – 12.11.14 <i>Eucalyptus crebra</i>, <i>E. tereticornis</i>, <i>Corymbia intermedia</i> woodland on metamorphics +/- interbedded volcanics. <p>Foraging habitat: Remnant and regrowth open forest and woodland in the REs nominated below that occur on sandy or stony Land Zones and occur within 3 km of permanent or seasonal water:</p> <ul style="list-style-type: none"> – 11.3.1 <i>Acacia harpophylla</i> and/or <i>Casuarina cristata</i> open forest on alluvial plains – 11.3.2 <i>Eucalyptus populnea</i> woodland on alluvial plains – 11.3.3 <i>Eucalyptus coolabah</i> woodland on alluvial plains – 11.3.4 <i>Eucalyptus tereticornis</i> and/or <i>Eucalyptus</i> spp. woodland on alluvial plains – 11.3.25 <i>Eucalyptus tereticornis</i> or <i>E. camaldulensis</i> woodland fringing drainage lines – 11.3.26 <i>Eucalyptus moluccana</i> or <i>E. microcarpa</i> woodland to open forest on margins of alluvial plains – 11.3.27 Freshwater wetlands – 11.3.29 <i>Eucalyptus crebra</i>, <i>E. exserta</i>, <i>Melaleuca</i> spp. woodland on alluvial plains – 12.3.3 <i>Eucalyptus tereticornis</i> woodland on Quaternary alluvium.
<p><i>Hemiaspis damelii</i> Grey snake</p>	<p>Grey snake habitat has been defined based on the species distribution and habitat outlined in the <i>Targeted Species Survey Guidelines</i> (Rowland 2012).</p> <p>The species prefers woodlands habitat (typically brigalow and belah woodlands), favouring heavier cracking clay soils associated with gullies, ditches and water bodies (Rowland 2012). Within the woodland habitat this species takes shelter in seasonally moist habitat such as in soil cracks, abandoned burrows, or under flood debris, logs and rocks (Rowland 2012). Frogs almost exclusively make up the diet of this species (Rowland 2012). The core distribution of this species within Queensland is in the Brigalow Belt, south of the Great Dividing Range between Glenmorgan and Dalby (Rowland 2012).</p>	<p>Suitable habitat for the grey snake was recorded in brigalow woodlands retaining seasonally inundated habitats (i.e. gilgais) within the SGIC SDA study area. Suitable ground-level microhabitats such as cracking clays, ground logs, woody debris and rocks were moderately low within remnant brigalow areas; however, these ground-level microhabitats are very sparse to absent within regrowth brigalow areas, and are heavily altered by intensive cultivation, and cattle grazing and trampling.</p> <p>Mapping of grey snake habitat has been based on DoR and field verified RE communities, habitat assessments and high-resolution aerial imagery. The habitat type, Brigalow (<i>Acacia harpophylla</i>) woodland, was mapped as predicted habitat for the grey snake.</p>
<p><i>Hirundapus caudacutus</i> White-throated needletail</p>	<p>White-throated needletail habitat has been defined based on the formal habitat definition in the Commonwealth listing advice for the species (TSSC 2019; DCCEEW 2022) and recent peer-reviewed literature (Tarburton 2021).</p> <p>In Australia, the white-throated needletail is mostly aerial, from heights of less than 1 m up to more than 1000 m above the ground (Coventry 1989; Tarburton 1993). Although they occur over most</p>	<p>Due to the species' aerial nature, the species has no strict reliance on defined foraging habitats. Species habitat has not been mapped on that basis.</p>

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	<p>types of habitats, they are recorded most often above wooded areas, including open forest and rainforest, and may also fly below the canopy between trees or in clearings (Higgins 1999). The species is a non-breeding migrant to Australia (TSSC 2019).</p> <p>Roosting habitat: The species roosts in trees amongst dense foliage in the canopy or in hollows (TSSC (2019). Roosting is typically on vertical trunks and upper branches of trees at the edge of forest breaks or on ridgetops, where birds would have some height to gain air-speed when departing in the morning (Tarburton 2021).</p> <p>Foraging habitat: In Australia, white-throated needletails almost always forage aerially, at heights up to “cloud level”, above a wide variety of habitats ranging from heavily treed forests to open habitats, such as farmland, heathland or mudflats (DCCEEW 2022). Because they are aerial, it has been stated that conventional habitat descriptions are inapplicable (Cramp 1985), but there are, nevertheless, certain preferences exhibited by the species. Although they occur over most habitat types, they are probably recorded most often above wooded areas, including open forest and rainforest, and may also fly between trees or in clearings, below the canopy, but they are less commonly recorded flying above woodland (DCCEEW 2022).</p>	
<p><i>Ninox strenua</i> Powerful owl</p>	<p>Powerful owl habitat has been defined based on the formal definition outlined in the essential habitat factors listed by Queensland DoR (2022b).</p> <p>Essential habitat factors for the powerful owl as detailed by the Queensland DoR include: Wet and dry tall open eucalypt forest (<i>E. tereticornis</i>, <i>E. camaldulensis</i>, <i>E. crebra</i>, <i>Corymbia citriodora</i> and <i>C. intermedia</i>), including mountain forest gullies/gorges; forests aged 60+ years (large and old) on fertile soils with suitable hollows; roosting in dense foliage of closed forest (occasionally caves) and foraging in open forest and woodland including areas adjacent to urban/rural development.</p> <p>Individual RE communities that represent essential habitat factors for the species have been nominated by DoR. Additional information from peer-reviewed literature is also provided below.</p> <p>Nesting habitat: Essential habitat definition: The species nests in large hollows (45-75 cm diameter, 50-180 cm deep) 6-45 m above ground, in large (>100 cm dbh) old eucalypts on the side or at the head of heavily wooded gully (DoR 2022a).</p> <p>Riparian nesting habitats of the powerful owl are typically located in larger intact remnants of forest associated with small streams and minor drainage lines (DEC 2006). The species typically does not occur within fragmented forest remnants <200 ha (Kavanagh and Stanton 2002). The species nests in large hollows (1 m wide and 2 m deep) usually in mature living eucalypts in unlogged, unburnt gullies and lower slopes immediately adjacent (within 100 m) to streams or minor drainage lines, surrounded by canopy trees and sub-canopy or understorey trees or tall shrubs.</p>	<p>Suitable habitat for the powerful owl was observed within areas retaining remnant, mature vegetation within the GSDA and southern extent of the SGIC SDA pipeline alignment. These areas were identified as suitable habitat for the species as they retain large, mature hollow-bearing trees, and suitable nesting and denning habitat for the arboreal mammals upon which the powerful owl preys.</p> <p>Mapping of powerful owl habitat has largely been based on habitats that are likely to support suitable hollow-bearing trees, necessary for provision of food (i.e. hollow-dependent arboreal mammal prey) and nesting sites for the powerful owl. Habitat mapping has also been based on DoR and field verified RE communities, habitat assessments and high-resolution aerial imagery. The habitat type, mature eucalypt woodland, was mapped as predicted habitat for the powerful owl.</p>

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	<p>Foraging habitat: The species relies on the presence of mature, hollow-bearing trees which provide den sites for the hollow-dwelling arboreal mammals which form the bulk of its prey. Given the reliance on hollow-bearing trees, the species favours mature mid-to-late succession, mixed age or multi-aged forest greater than 60 years old (Davey, 1993; Milledge <i>et al.</i> 1991; Higgins, 1999).</p>	
<p><i>Ornithorhynchus anatinus</i> Platypus</p>	<p>Platypus habitat includes freshwater creeks, slow-moving rivers, lakes joined by rivers, and built water storages such as farm dams. Preferred habitat for the species is defined as areas that have steep, well vegetated banks (Grant and Temple-Smith 1998).</p> <p>Burrows occur in the river banks, often above the water line and amongst tree roots (DES 2022b)</p>	<p>Due to the species' aquatic nature, the species has no strict reliance on defined foraging habitats. Foraging habitat has not been mapped on that basis.</p>
<p><i>Petauroides volans</i> Greater glider (southern and central)</p>	<p>Greater glider habitat has been defined based on the formal habitat definition in the Commonwealth conservation advice for the species (DCCEEW 2022a) and in the <i>Guide to greater glider habitat in Queensland</i> (Eyre 2022).</p> <p>Eucalypt forests and woodlands, occurring in highest abundance in taller, montane, moist Eucalypt forests with relatively old trees and abundant hollows (DCCEEW 2022a). The species dens in large hollows (diameter >10 cm) in mature trees (DCCEEW 2022a).</p> <p>The greater glider (southern and central) has been most frequently recorded feeding on trees including, <i>Corymbia citriodora</i>, <i>C. intermedia</i>, <i>Eucalyptus fibrosa</i>, <i>E. moluccana</i> and <i>E. portuensis</i>, with <i>C. citriodora</i> and <i>E. tereticornis</i> being important species in greater glider habitat (Eyre <i>et al.</i> 2022).</p> <p>Greater gliders have a relatively small home range, typically 1-4 ha (DCCEEW 2022a). Studies revealed that the occupation of a small (< 3 ha) home range is consistent throughout the species Australian geographic range, and therefore, small patches should not be dismissed as important habitat especially if connected to other patches of suitable habitat (Eyre <i>et al.</i> 2022).</p>	<p>Mapping of greater glider (southern and central) habitat has been based on DoR and field verified RE communities, habitat assessments and high-resolution aerial imagery. Predicted habitat for the greater glider (southern and central) was differentiated into denning and foraging habitat based on the categories below.</p> <p>Denning habitat: Remnant woodland retaining large, mature eucalypt trees supporting suitable hollows (diameter >10 cm) (DCCEEW 2022a), and the patch of vegetation is larger than 1 ha and is connected to other patches of remnant woodland with gaps no larger than 35 m, as the species average glide length is typically 25 to 35 m (with a launch height of 20 to 25 m) (Australian Museum Business Service 2001)..</p> <p>Foraging habitat: Remnant and regrowth woodland retaining suitable feed tree species including, <i>Corymbia tessellaris</i>, <i>C. intermedia</i>, <i>Eucalyptus crebra</i>, <i>E. moluccana</i> and <i>E. tereticornis</i>, and is connected to continuous habitats with gaps no larger than 35 m.</p> <p>–</p>
<p><i>Petaurus australis australis</i> Yellow-bellied glider (south-eastern)</p>	<p>Yellow-bellied glider (south-eastern) habitat has been defined based on the formal definition in the Commonwealth conservation advice for the subspecies (DAWE 2022a).</p> <p>The yellow-bellied glider occurs in eucalypt-dominated woodland and forest. The species is reliant on mature hollow-bearing trees for denning sites. The subspecies is very mobile and occupies large home ranges between 50-85 ha in order to utilise sufficient foraging resources (DAWE 2022). The yellow-bellied glider (south-eastern) primarily sap from incisions cut in smooth-bark eucalypts including <i>Eucalyptus tereticornis</i>, <i>E. moluccana</i>, <i>Corymbia citriodora</i> and <i>C. intermedia</i>. The subspecies diet also comprises insets, nectar, manna and pollen (DAWE 2022a).</p>	<p>Mapping of yellow-bellied glider (south-eastern) habitat has been based on DoR and field verified RE communities, habitat assessments and high-resolution aerial imagery. Predicted habitat for the yellow-bellied glider (south-eastern) was differentiated into denning and foraging habitat based on the categories below.</p> <p>Denning habitat: Remnant woodland retaining large, mature eucalypt trees supporting suitable hollows, and is connected to large patches of remnant woodland (< 200 km²).</p> <p>Foraging habitat: Remnant and regrowth woodland retaining smooth-bark tree species including, <i>Corymbia tessellaris</i>, <i>E. moluccana</i> and <i>E. tereticornis</i>, and is connected to continuous habitats.</p>
<p><i>Phascolarctos cinereus</i></p>	<p>Koala habitat - general</p> <p>Koala habitat has been defined using the criteria outlined in the Commonwealth approved</p>	<p>Koala habitat</p> <p>Forest, woodland, open woodland and shrubland that contains koala food trees including,</p>

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Koala	<p>conservation advice for the species (DAWE 2022c) and National Recovery Plan for the koala (DAWE 2022d).</p> <p>Biophysical habitat attributes for the koala include places that contain the resources necessary for individual foraging, survival (including predator avoidance), growth, reproduction, and movement. For an individual koala, these resources include access to sufficient quality food and shelter trees to meet their daily energetic requirements and reproductive needs, and a place to avoid predators.</p> <p>Koala habitat includes forests or woodlands, roadside and rail vegetation and paddock trees, safe intervening ground matrix for travelling between trees and patches to forage and shelter and reproduce and access to vegetated corridors or paddock trees to facilitate movement between patches. These resources fall within individual koala's home ranges and allow for interaction with adjacent individuals.</p>	<p><i>Eucalyptus moluccana</i>, <i>E. tereticornis</i>, <i>E. coolabah</i>, <i>E. crebra</i>, <i>E. exserta</i>, <i>Corymbia citriodora</i>, <i>C. erythrophloia</i>, <i>C. tessellaris</i>, <i>C. intermedia</i> and <i>Lophostemon suaveolens</i>.</p> <p>Mapping criteria was based on essential habitat factors for the koala (DoR) and definitions of habitat from the Commonwealth approved conservation advice and National Recovery Plan for the Koala.</p>
	<p>Koala habitat – remnant vegetation</p> <p>Koala habitat includes forests or woodlands. These resources fall within individual koala's home ranges and allow for interaction with adjacent individuals.</p>	<p>Remnant woodland in the RE communities nominated below that contain the koala food trees listed above as a diagnostic criteria were mapped based on DoR and field verified RE communities, habitat assessments and high resolution aerial imagery.</p> <ul style="list-style-type: none"> – 11.3.1 <i>Acacia harpophylla</i> and/or <i>Casuarina cristata</i> open forest on alluvial plains – 11.3.2 <i>Eucalyptus populnea</i> woodland on alluvial plains – 11.3.3 <i>Eucalyptus coolabah</i> woodland on alluvial plains – 11.3.4 <i>Eucalyptus tereticornis</i> and/or <i>Eucalyptus</i> spp. woodland on alluvial plains – 11.3.25 <i>Eucalyptus tereticornis</i> or <i>E. camaldulensis</i> woodland fringing drainage lines – 11.3.26 <i>Eucalyptus moluccana</i> or <i>E. microcarpa</i> woodland to open forest on margins of alluvial plains – 11.3.29 <i>Eucalyptus crebra</i>, <i>E. exserta</i>, <i>Melaleuca</i> spp. woodland on alluvial plains – 11.11.4 <i>Eucalyptus crebra</i> woodland on old sedimentary rocks with varying degrees of metamorphism and folding. Coastal ranges – 11.11.15 <i>Eucalyptus crebra</i> woodland to open woodland on deformed and metamorphosed sediments and interbedded volcanics – 11.11.16 <i>Eucalyptus cambageana</i>, <i>Acacia harpophylla</i> open forest to woodland on old sedimentary rocks with varying degrees of metamorphism and folding. Lowlands.
	<p>Koala habitat – non-remnant vegetation</p> <p>Koala habitat includes roadside and rail vegetation and paddock trees, safe intervening ground matrix for travelling between trees and patches to forage and shelter and reproduce and access to vegetated corridors or paddock trees to facilitate movement</p>	<p>Patches of koala food trees within areas of non-remnant vegetation that provide connectivity to other patches of remnant or non-remnant vegetation within the landscape were mapped as predicted koala habitat. These were mapped using high resolution aerial imagery based on</p>

Species	Habitat description in Commonwealth/State listing advise	Criteria use to map habitat
	<p>between patches. These resources fall within individual koala's home ranges and allow for interaction with adjacent individuals.</p>	<p>ground-truthed information from field observations.</p> <p>Isolated koala food trees that do not provide connectivity to other areas of remnant and non-remnant vegetation within the landscape with a distance of more than 100 m from the nearest food tree were not mapped.</p>
<p><i>Pteropus poliocephalus</i> Grey-headed flying-fox</p>	<p>Grey-headed flying-fox habitat has been defined based on the formal definition outlined in the Commonwealth listing advice for the species (DAWE 2022ax) and the National Recovery Plan for the Grey-headed Flying-fox <i>Pteropus poliocephalus</i> (DAWE 2021).</p> <p>Roosting habitat: Roost vegetation includes rainforest patches, stands of <i>Melaleuca</i>, mangroves and riparian vegetation (DAWE 2021), but colonies also use highly modified vegetation in urban and suburban areas (DAWE 2021). The species can maintain fidelity to roost sites for extended periods (DCCEEW 2022j), although new sites have been colonised (DAWE 2021).</p> <p>Foraging habitat: The grey-headed flying-fox is a canopy-feeding frugivore and nectarivore, with a diet supplemented by leaves. The species utilises vegetation communities including rainforests, open forests, closed and open woodlands, <i>Melaleuca</i> swamps and <i>Banksia</i> woodlands. It also feeds on commercial fruit crops and on introduced tree species in urban areas. The primary food source is blossom from <i>Eucalyptus</i> and related genera but in some areas, it also utilises a wide range of rainforest fruits (DCCEEW 2022j; DAWE 2021). The species is known to fly up to 40 km from camp to feed. Almost none of the vegetation communities used by the grey-headed flying-fox produce continuous foraging resources throughout the year. As a result, the species has adopted complex migration traits in response to ephemeral and patchy food resources (DCCEEW 2022j; DAWE 2021).</p> <p>Habitat critical to the survival of the species</p> <p>Habitat critical to the survival of the species includes plant species that flower in winter and spring, when foraging resources are in limited supply. Important winter and spring vegetation communities are those that contain <i>Eucalyptus tereticornis</i>, <i>E. albens</i>, <i>E. crebra</i>, <i>E. fibrosa</i>, <i>E. melliodora</i>, <i>E. paniculata</i>, <i>E. pilularis</i>, <i>E. robusta</i>, <i>E. seeana</i>, <i>E. sideroxylon</i>, <i>E. siderophloia</i>, <i>Banksia integrifolia</i>, <i>Castanospermum australe</i>, <i>Corymbia citriodora citriodora</i>, <i>C. eximia</i>, <i>C. maculata</i>, <i>Grevillea robusta</i>, <i>Melaleuca quinquenervia</i> or <i>Syncarpia glomulifera</i> (DAWE 2021).</p>	<p>Remnant and non-remnant vegetation retaining suitable feed trees (i.e. <i>Eucalyptus tereticornis</i>, <i>E. crebra</i>, <i>Corymbia citriodora</i> and <i>Melaleuca quinquenervia</i>) within 40 km of the nearest flying-fox camp has been mapped as predicted grey-headed flying-fox habitat. Species habitat mapping was based on DoR and field verified RE communities, habitat assessments and high-resolution aerial imagery.</p>
<p><i>Rheodytes leukops</i> Fitzroy River turtle</p>	<p>The Fitzroy River turtle, endemic to the Fitzroy River and associated tributaries prefers flowing river sections with large deep pools with rocky, gravel or sandy substrates, connected by shallow riffles (Cogger, et.al 1993).</p> <p>Critical habitat for the Fitzroy River turtle includes:</p> <ul style="list-style-type: none"> – Parts of riverine systems with permanent water, including pools, within the species' distribution that contain shelter and refuges (e.g. bank 	<p>Due to the species' aquatic nature, the species has no strict reliance on defined foraging habitats. Foraging habitat has not been mapped on that basis.</p>

Species	Habitat description in Commonwealth/State listing advise	Criteria use to map habitat
	<p>overhangs, overhanging riparian vegetation, macrophyte beds, moderate to high densities of submerged boulders and/or log jams).</p> <p>All currently known and new aggregated nesting sites (all nesting sites should be considered to be part of an aggregation unless it can be demonstrated otherwise).</p>	
<p><i>Rostratula australis</i> Australian painted snipe</p>	<p>The Australian painted snipe is recorded in wetlands in all states of Australia. The most common occurrence is eastern Australia, scattered through much of Queensland, NSW, Victoria and south-eastern South Australia (DoE 2022). They occur in shallow freshwater wetlands, both ephemeral and permanent, including lakes, swamps, inundated or waterlogged grassland/saltmarsh, dams, sewage farms and bore drains (DSEWPC 2013). Nests are often placed in a scrape in the ground and is either a shallow bowl shaped made of dry grass or other material or has scant lining (DoE 2022). These are often located in swamps, cane grass swamps, flooded areas, grazing lands, among cumbungi, sedges, grasses, saltwater couch, saltbush and grass. The diet of the Australian painted snipe consists of vegetation, seeds, insects, worms and molluscs, crustaceans and other invertebrates (DoE 2022).</p>	<p>Suitable habitat for the species was observed in areas where the pipeline alignment intersects freshwater waterbodies and seasonal wetlands. Mapping of Australian painted snipe habitat has been based on DoR and field verified RE communities, habitat assessments and high-resolution aerial imagery.</p>

Appendix G

Field survey site photos of suitable and non-suitable koala habitat

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20



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Appendix H

Field survey species list

Scientific name	Common name	GSDA	SGIC SDA	Northern Section
Birds				
<i>Anas superciliosa</i>	Pacific Black Duck		X	X
<i>Anseranas semipalmata</i>	Magpie Goose			X
<i>Anthus novaeseelandiae</i>	Australasian Pipit	X	X	X
<i>Aprosmictus erythropterus</i>	Red-winged Parrot	X	X	
<i>Aquila audax</i>	Wedge-tailed Eagle		X	
<i>Ardea ibis</i>	Cattle Egret		X	
<i>Ardea intermedia</i>	Intermediate Egret		X	
<i>Ardea modesta</i>	Eastern Great Egret			X
<i>Ardea pacifica</i>	White-necked Heron		X	
<i>Ardeotis australis</i>	Australian Bustard		X	X
<i>Burhinus grallarius</i>	Bush Stone-curlew		X	
<i>Cacatua galerita</i>	Sulphur-crested Cockatoo	X	X	
<i>Calyptorhynchus banksii</i>	Red-tailed Black-Cockatoo	X	X	
<i>Centropus phasianinus</i>	Pheasant Coucal	X	X	
<i>Chenonetta jubata</i>	Australian Wood Duck		X	X
<i>Cincloramphus cruralis</i>	Brown Songlark			X
<i>Cisticola exilis</i>	Golden-headed Cisticola		X	X
<i>Cisticola juncidus</i>	Zitting Cisticola		X	
<i>Coracina novaehollandiae</i>	Black-faced Cuckoo-shrike	X	X	
<i>Corvus orru</i>	Torresian Crow	X	X	X
<i>Coturnix ypsilophora</i>	Brown Quail	X	X	
<i>Cracticus nigrogularis+</i>	Pied Butcherbird	X		X
<i>Cracticus tibicen</i>	Australian Magpie	X	X	X
<i>Cygnus atratus</i>	Black Swan			X
<i>Dacelo leachii</i>	Blue-winged Kookaburra	X	X	

Scientific name	Common name	GSDA	SGIC SDA	Northern Section
<i>Dacelo novaeguineae</i>	Laughing Kookaburra	X	X	
<i>Dendrocygna eytoni</i>	Plumed Whistling-Duck		X	X
<i>Dicaeum hirundinaceum</i>	Mistletoebird	X	X	
<i>Dicrurus bracteatus</i>	Spangled Drongo	X	X	
<i>Dromaius novaehollandiae</i>	Emu			X
<i>Egretta novaehollandiae</i>	White-faced Heron			X
<i>Eusemyornis melanops</i>	Black-fronted Dotterel		X	
<i>Entomyzon cyanotis</i>	Blue-faced Honeyeater	X	X	
<i>Eolophus roseicapillus</i>	Galah	X	X	X
<i>Ephippiorhynchus asiaticus</i>	Black-necked Stork		X	
<i>Eurystomus orientalis</i>	Dollarbird	X	X	
<i>Falco berigora</i>	Brown Falcon		X	
<i>Falco cenchroides</i>	Nankeen Kestrel	X	X	X
<i>Gallinula tenebrosa</i>	Dusky Moorhen		X	X
<i>Geopelia cuneata</i>	Diamond Dove	X	X	
<i>Geopelia humeralis</i>	Bar-shouldered Dove	X	X	
<i>Geopelia striata</i>	Peaceful Dove	X	X	X
<i>Geophaps scripta scripta</i>	Squatter Pigeon	X		
<i>Gerygone albogularis</i>	White-throated Gerygone	X	X	
<i>Glossopsitta pusilla</i>	Little Lorikeet	X		
<i>Grallina cyanoleuca</i>	Magpie-lark	X	X	X
<i>Grus rubicunda</i>	Brolga		X	
<i>Haliaeetus leucogaster</i>	White-bellied Sea-Eagle		X	
<i>Haliastur sphenurus</i>	Whistling Kite	X	X	X
<i>Himantopus himantopus</i>	Black-winged Stilt		X	
<i>Hirundo neoxena</i>	Welcome Swallow		X	X
<i>Lichmera indistincta</i>	Brown Honeyeater	X	X	
<i>Malurus melanocephalus</i>	Red-backed Fairy-wren	X	X	X

Scientific name	Common name	GSDA	SGIC SDA	Northern Section
<i>Manorina melanocephala</i>	Noisy Miner	X	X	X
<i>Meliphaga lewinii</i>	Lewin's Honeyeater	X		
<i>Melithreptus albogularis</i>	White-throated Honeyeater	X	X	
<i>Merops ornatus</i>	Rainbow Bee-eater	X	X	X
<i>Microcarbo melanoleucos</i>	Little Pied Cormorant			X
<i>Milvus migrans</i>	Black Kite	X	X	X
<i>Mirafra javanica</i>	Horsfield's Bushlark			X
<i>Myiagra rubecula</i>	Leaden Flycatcher	X	X	
<i>Nymphicus hollandicus</i>	Cockatiel	X		
<i>Ocyphaps lophotes</i>	Crested Pigeon	X	X	
<i>Pachycephala rufiventris</i>	Rufous Whistler		X	
<i>Pardalotus striatus</i>	Striated Pardalote		X	
<i>Pelecanus conspicillatus</i>	Australian Pelican			X
<i>Petrochelidon ariel</i>	Fairy Martin		X	X
<i>Petrochelidon nigricans</i>	Tree Martin			X
<i>Philemon citreogularis</i>	Little Friarbird	X	X	
<i>Philemon corniculatus</i>	Noisy Friarbird	X	X	
<i>Platycercus adscitus</i>	Pale-headed Rosella	X	X	
<i>Podargus strigoides</i>	Tawny Frogmouth		X	
<i>Porphyrio porphyrio</i>	Purple Swamphen		X	
<i>Rhipidura albiscapa</i>	Grey Fantail	X	X	
<i>Rhipidura leucophrys</i>	Willie Wagtail	X	X	X
<i>Smicronis brevirostris</i>	Weebill	X	X	
<i>Struthidea cinerea</i>	Apostlebird		X	X
<i>Sturnus tristis</i>	Common Myna		X	
<i>Tachybaptus novaehollandiae</i>	Australasian Grebe		X	X
<i>Taeniopygia bichenovii</i>	Double-barred Finch	X	X	X
<i>Threskiornis molucca</i>	Australian White Ibis		X	X

Scientific name	Common name	GSDA	SGIC SDA	Northern Section
<i>Todiramphus macleayii</i>	Forest Kingfisher	X	X	
<i>Trichoglossus chlorolepidotus</i>	Scaly-breasted Lorikeet	X	X	
<i>Trichoglossus haematodus</i>	Rainbow Lorikeet	X	X	
<i>Vanellus miles</i>	Masked Lapwing	X	X	X
<i>Zosterops lateralis</i>	Silvereye		X	
Mammals				
<i>Aepyprymnus rufescens</i>	Rufous Bettong		X	
<i>Austronomus australis</i>	White-striped Free-tail Bat		X	
<i>Canis lupus familiaris</i>	Wild Dog		X	
<i>Chaerephon jobensis</i>	Northern Freetail Bat	X	X	
<i>Chalinolobus gouldii</i>	Gould's Wattled Bat	X	X	
<i>Chalinolobus nigrogriseus</i>	Hoary Wattled Bat	X	X	
<i>Chalinolobus picatus</i>	Little Pied Bat		X	
<i>Felis catus</i>	Cat			X
<i>Macropus agilis</i>	Agile Wallaby		X	
<i>Macropus giganteus</i>	Eastern Grey Kangaroo	X	X	
<i>Macropus parryi</i>	Whiptail Wallaby	X		
<i>Miniopterus australis</i>	Little Bent-wing Bat	X	X	
<i>Miniopterus orianae</i>	Large Bent-winged Bat		X	
<i>Myotis macropus</i>	Large-footed Myotis	X		
<i>Oryctolagus cuniculus</i>	European Rabbit	X	X	X
<i>Ozimops lumsdenae</i>	Northern Free-tailed Bat	X	X	
<i>Ozimops ridei</i>	Ride's Free-tailed Bat	X	X	
<i>Petaurus norfolcensis</i>	Squirrel Glider		X	
<i>Pteropus scapulatus</i>	Little Red Flying-fox	X		
<i>Saccolaimus flaviventris</i>	Yellow-bellied Sheath-tailed Bat	X	X	
<i>Scotorepens greyii</i>	Little Broad-nosed Bat		X	
<i>Scotorepens sanborni</i>	Northern Broad-nosed Bat	X		

Scientific name	Common name	GSDA	SGIC SDA	Northern Section
<i>Sus scrofa</i>	Feral Pig	X	X	X
<i>Trichosurus vulpecula</i>	Common Brushtail Possum		X	
<i>Vulpes vulpes</i>	European Red Fox	X	X	
<i>Wallabia bicolor</i>	Swamp Wallaby	X	X	
Reptiles				
<i>Gehyra dubia</i>	Dubious Dtella	X	X	X
<i>Heteronotia binoei</i>	Bynoe's Gecko	X	X	X
<i>Pogona barbata</i>	Eastern Bearded Dragon	X	X	X
<i>Tropidonophis mairii</i>	Keelback			X
Amphibians				
<i>Cyclorana alboguttata</i>	Green-striped Burrowing Frog			X
<i>Limnodynastes tasmaniensis</i>	Spotted Marsh Frog			X
<i>Litoria caerulea</i>	Green Tree Frog	X	X	X
<i>Litoria fallax</i>	Eastern Sedge Frog		X	
<i>Litoria rubella</i>	Desert Tree Frog	X	X	X
<i>Platyplectrum ornatum</i>	Ornate Burrowing Frog			X
<i>Rhinella marina</i>	Cane Toad	X	X	X

Appendix I

Microbat call identification reports



Microbat Call Identification Report

Prepared for (“Client”):	GHD
Survey location/project name:	Gladstone-Fitzroy Pipeline
Survey dates:	21-25 February 2022
Client project reference:	12559247
Job no.:	GHD-2205
Report date:	26 April 2022

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Methods

Data received

Balance! Environmental received some 4600 full-spectrum acoustic (WAV) files, recorded using two Anabat Swift detectors (Titley Scientific, Brisbane). Based on the GPS coordinates saved in the WAV files, the detector labelled “SD1” (SN583127) was deployed at a single site (23.8619° S 151.0483° E) for four nights (21-24 February 2022), while detector “SD2” (SN583123) sampled two separate sites for two nights each: 23.8403° S 151.1251° E on 21-22 February; and 23.8437° S 151.1109° E on 23-24 February.

Data post-processing and analysis

The data were processed using *Anabat Insight* (Version 2.0.1; Titley Scientific, Brisbane). A generic noise filter was applied to all WAV files to separate those that contained only non-bat background noise from files with potentially identifiable bat calls. The Decision Tree analysis tool was then used to group similar calls and assign tentative species labels.

All Decision Tree groups were reviewed manually to confirm and/or reassign correct species identities. Manual species verification was achieved by comparing call spectrograms and derived metrics of all labelled files with those of reference calls from northern and central Queensland and/or with published call descriptions (e.g. Reinhold *et al.* 2001). The likelihood of a species’ occurrence was further confirmed by referring to published distributional information (e.g., Australasian Bat Society 2022; Churchill 2008; van Dyck *et al.* 2013).

Where calls could not be reliably identified to a single species (“unresolved” calls), due to overlapping call characteristics, they were assigned to multi-species groups. All members of such groups should be considered probably present during the survey.

Reporting standard

The format and content of this report follows Australasian Bat Society standards for the interpretation and reporting of bat call data (Reardon 2003), available on-line at <http://www.ausbats.org.au/>. Species nomenclature follows Armstrong *et al.* (2020).

Results & Discussion

Most of the WAV files contained only non-bat background noise. A total of 217 individual bat calls were identified in the 204 files that passed the noise filter. Most (202) of those calls were reliably attributed to one of nine distinct species (see **Table 1**). The other 15 calls could not be positively identified but belonged to two species (*Chalinolobus gouldii* and/or *Ozimops ridei*) that were otherwise reliably identified.

Sample call spectrograms for each species appear in **Appendix 2**.

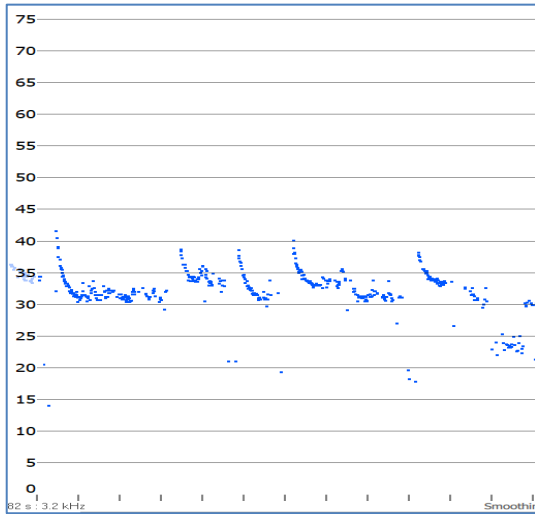
Table 1 Bats recorded during the Gladstone-Fitzroy Pipeline survey, 21-24 February 2022.

Detector code-serial number:	SD1-SN583127	SD2-SN583123		Species total
Location:	23.8619° S 151.0483° E	23.8403° S 151.1251° E	23.8437° S 151.1109° E	
Nights deployed:	21-24 Feb	21-22 Feb	23-24 Feb	
Positively identified calls				
<i>Chalinolobus gouldii</i>	2	20	1	23
<i>Chalinolobus nigrogriseus</i>		41		41
<i>Myotis macropus</i>		21		21
<i>Scotorepens sanborni</i>		13		13
<i>Miniopterus australis</i>		12	6	18
<i>Chaerephon jobensis</i>	5	14		19
<i>Ozimops lumsdenae</i>	7	19	5	31
<i>Ozimops ridei</i>		34	1	35
<i>Saccolaimus flaviventris</i>	1			1
Unresolved calls				
<i>C. gouldii</i> / <i>O. ridei</i>	4	10	1	15
Detector-night total	19	184	14	217

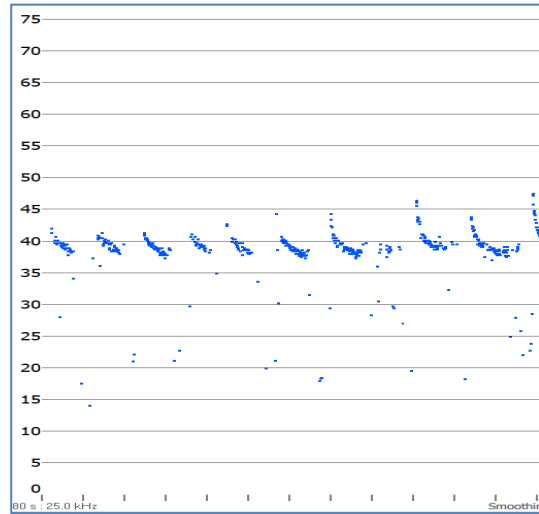
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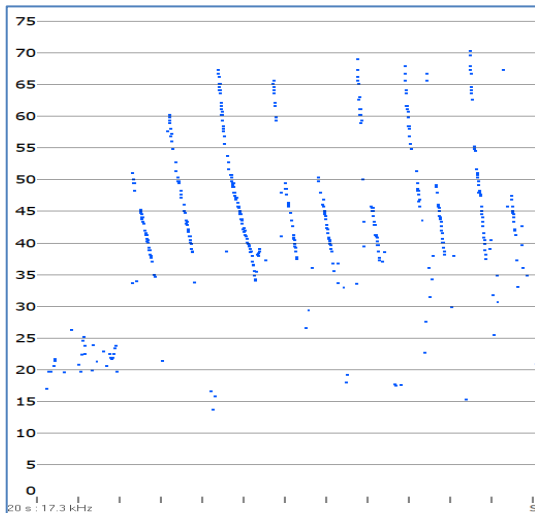
Appendix 1 Representative call sequences: Gladstone-Fitzroy pipeline survey, February 2022.
 x-axis = 10 ms per tick-mark; time between pulses removed ("compressed")



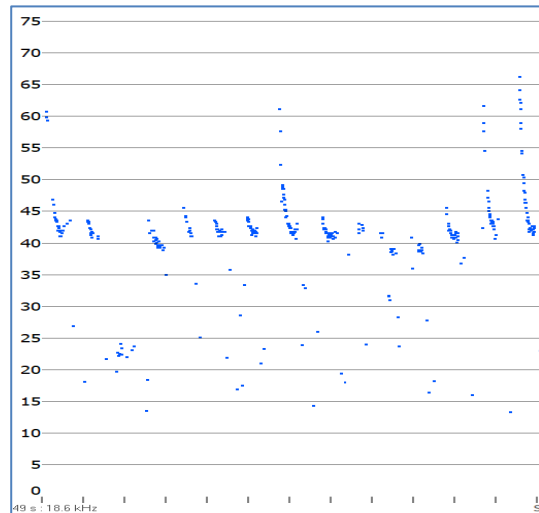
Chalinolobus gouldii



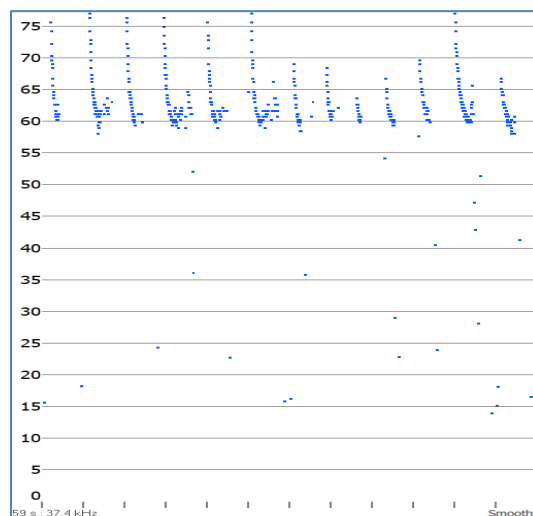
Chalinolobus nigrogriseus



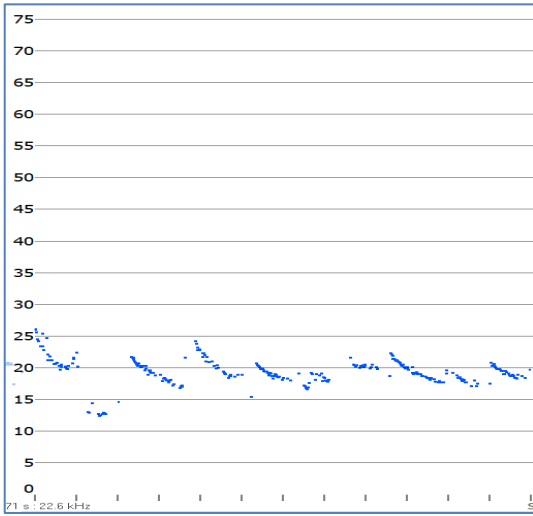
Myotis macropus



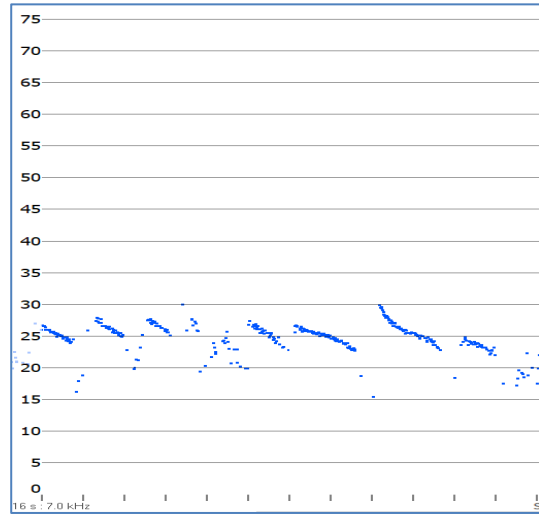
Scotorepens sanborni



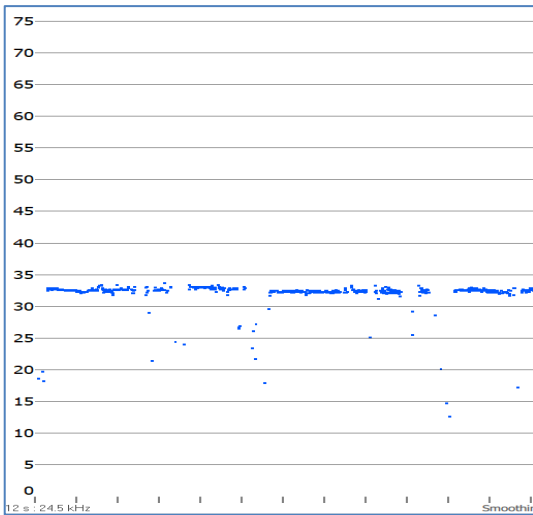
Miniopterus australis



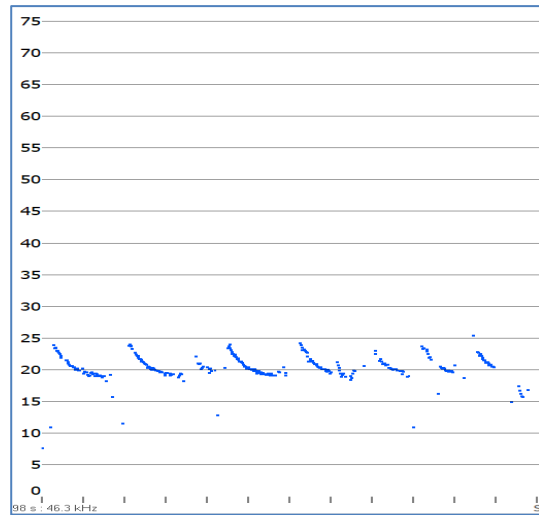
Chaerephon jobensis



Ozimops lumsdenae



Ozimops ridei



Saccolaimus flaviventris



Microbat Call Identification Report

Prepared for (“Client”):	GHD
Survey location/project name:	Marmor & Mount Larcom
Survey dates:	3-6 May 2022
Client project reference:	12559247 GAWB GFP
Job no.:	GHD-2208
Report date:	16 June 2022

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Methods

Data received

Balance! Environmental received some 351 full-spectrum acoustic (WAV) files from an Anabat Swift detector, plus three raw ZCA files from an Anabat Express detector. The data were recorded from two sites between 3rd and 6th May 2022 (see **Table 1**).

Data post-processing and analysis

Analyses were performed in *Anabat Insight* (Version 2.0.2; Titley Scientific, Brisbane).

The “Convert ZCA” function was used to extract individual trigger events (ZC sequence files) from the raw ZCA files. All resulting ZC files, plus the WAV files were then subjected to a noise filter, which set aside files that contained only non-bat background noise. Files that passed the noise filter (i.e., contained bat calls) were then processed with the Decision Tree analysis tool to group similar calls and assign tentative species labels.

All Decision Tree groups were reviewed manually to confirm and/or reassign correct species identities. Manual species verification was achieved by comparing call spectrograms and derived metrics of all labelled files with those of reference calls from northern and central Queensland and/or with published call descriptions (e.g. Reinhold et al. 2001). The likelihood of a species’ occurrence in the study area was confirmed by referring to published distributional information (e.g., Australasian Bat Society 2022; Churchill 2008; van Dyck *et al.* 2013).

Where calls could not be reliably identified to a single species due to overlapping call characteristics (“unresolved” calls), they were assigned to multi-species groups. All members of such groups should be considered probably present during the survey.

Reporting standard

The format and content of this report follows Australasian Bat Society standards for the interpretation and reporting of bat call data (Reardon 2003), available on-line at <http://www.ausbats.org.au/>. Species nomenclature follows Armstrong *et al.* (2020).

Table 1 Anabat deployment details for the surveys at Marmor and Mount Larcom, 3-6 May 2022.

Detector	Serial #	Nights	Location	Latitude	Longitude
Balance	SN583127	4 th & 5 th May	Twelve Mile Rd, Marmor	-23.6820	150.7577
GHD	SN507226	3 rd , 4 th & 5 th May	The Narrows Rd, Mount Larcom	-23.8114	150.9977

Results & Discussion

The ZCA conversion process yielded 2904 ZC files for the Mount Larcom site; however, 2220 of those files contained only non-bat background noise. The noise filter also excluded 120 non-bat WAV files from the Marmor site. A total of 965 individual bat calls were identified in remaining dataset.

Some 62% (603) of the identifiable calls were reliably attributed to twelve distinct species (see upper portion of **Table 2**). The other 362 “unresolved” calls were allocated to seven multi-species groups (**Table 2**, bottom section), six of which represented only species that were otherwise positively identified. The remaining group included calls made by either *Myotis macropus* or one or more *Nyctophilus* species. Based on the GPS coordinates in the metadata (see **Table 1**), it appears both detectors were deployed adjacent to watercourses, so it is highly probable these calls all belonged to *M. macropus*, which forages predominantly over open water. Despite this, it is possible that some calls in the group also represented one or more of *N. bifax*, *N. geoffroyii* or *N. gouldi*.

Sample call spectrograms for each species appear in **Appendix 1**.

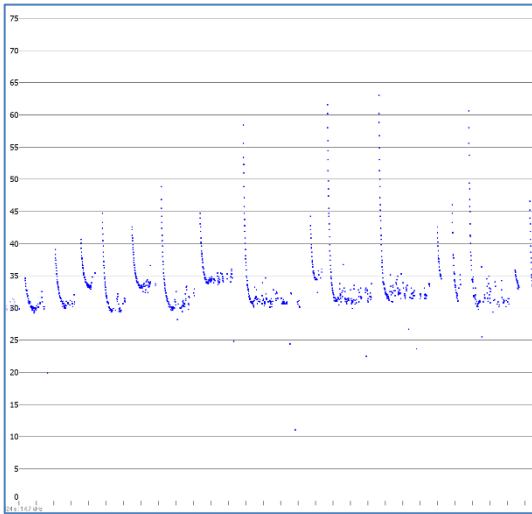
Table 2 Bats recorded at Marmor and Mount Larcom, May 2022.

Site:	Marmor	Mount Larcom	Species Total
Positively identified calls			
<i>Chalinolobus gouldii</i>	3	23	26
<i>Chalinolobus nigrogriseus</i>		25	25
<i>Chalinolobus picatus</i>		4	4
<i>Scotorepens greyii</i>		13	13
<i>Scotorepens sanborni</i>		127	127
<i>Miniopterus australis</i>	1	79	80
<i>Miniopterus orianae</i>	1	7	8
<i>Austronomus australis</i>	3	1	4
<i>Chaerephon jobensis</i>	141	36	177
<i>Ozimops lumsdenae</i>	1	18	19
<i>Ozimops ridei</i>	1	20	21
<i>Saccolaimus flaviventris</i>	52	47	99
Unresolved calls			
<i>C. gouldii</i> / <i>O. ridei</i>	2	36	38
<i>C. nigrogriseus</i> / <i>S. greyii</i>		130	130
<i>C. picatus</i> / <i>S. sanborni</i>		65	65
<i>Myotis macropus</i> / <i>Nyctophilus</i> sp.	10	25	35
<i>S. greyii</i> / <i>S. sanborni</i>		15	15
<i>S. flaviventris</i> / <i>C. jobensis</i>	22	54	76
<i>S. flaviventris</i> / <i>O. lumsdenae</i>		3	3
Site Total	237	728	965

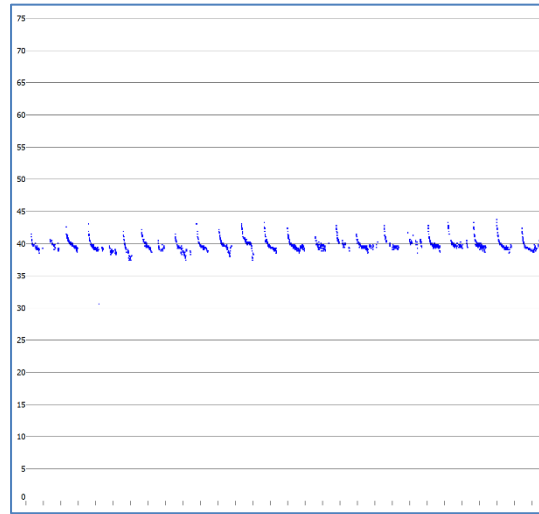
References

- Armstrong, K.N., Reardon, T.B., and Jackson, S.M. (2020). A current taxonomic list of Australian Chiroptera. Australasian Bat Society. Version 2020-06-09.
URL: <http://ausbats.org.au/species-list/4593775065>
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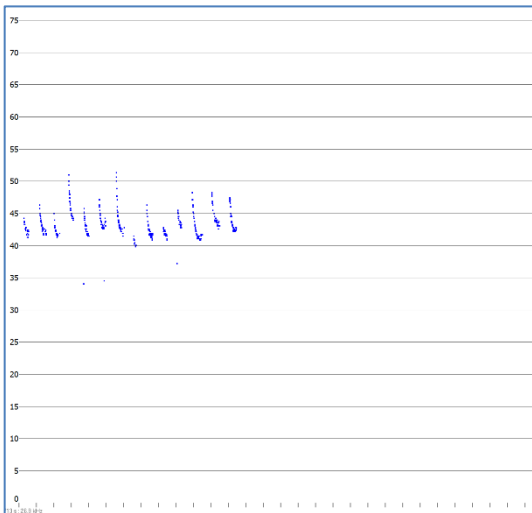
Appendix 1 Representative call sequences: Marmor & Mount Larcom survey, May 2022.
 x-axis = 10 ms per tick-mark; time between pulses removed ("compressed")



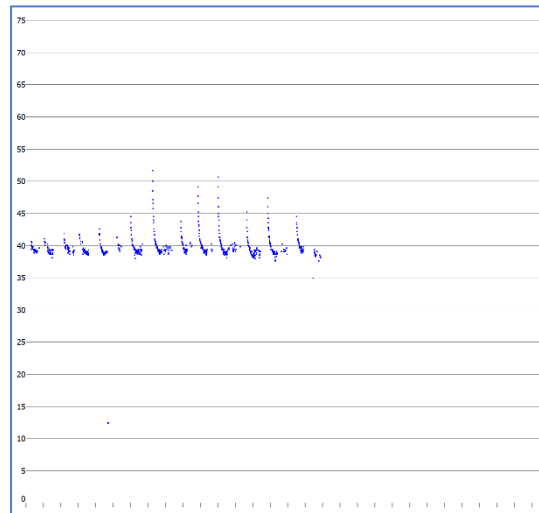
Chalinolobus gouldii



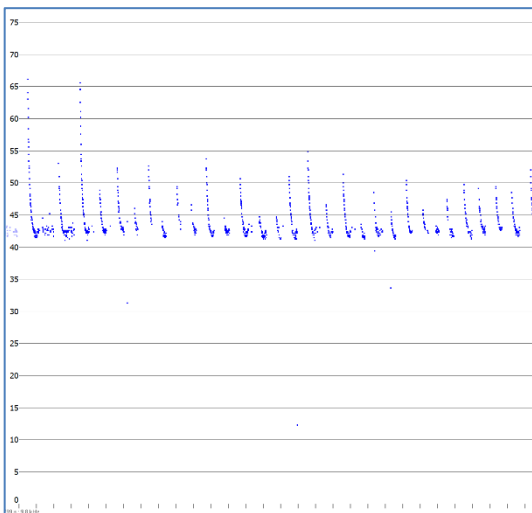
Chalinolobus nigrogriseus



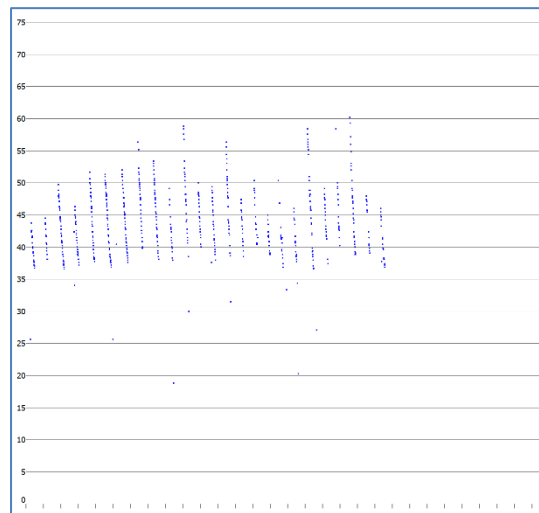
Chalinolobus picatus



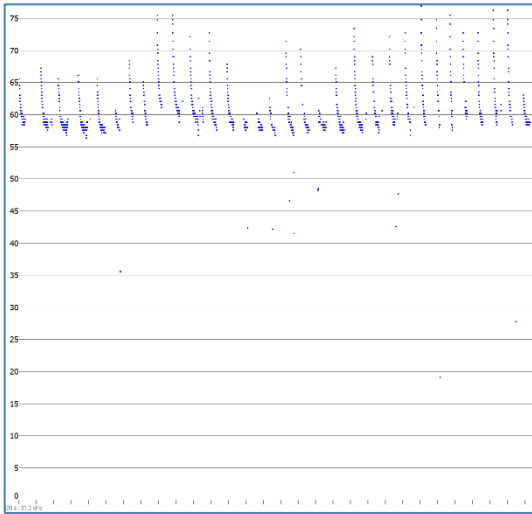
Scotorepens greyii



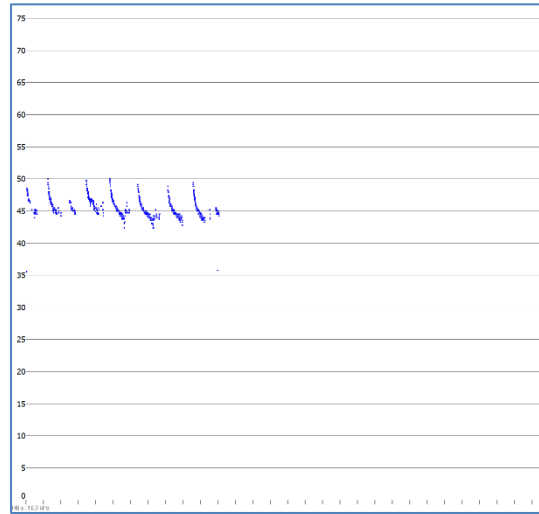
Scotorepens sanborni



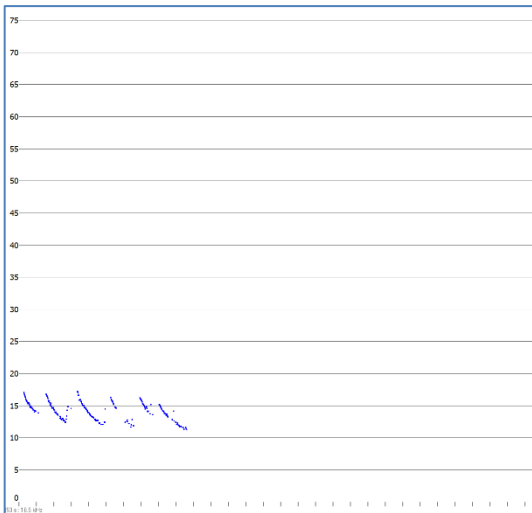
Myotis macropus / Nyctophilus sp.



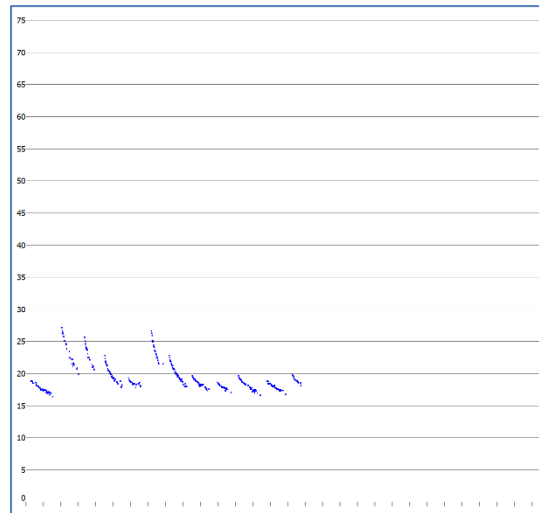
Miniopterus australis



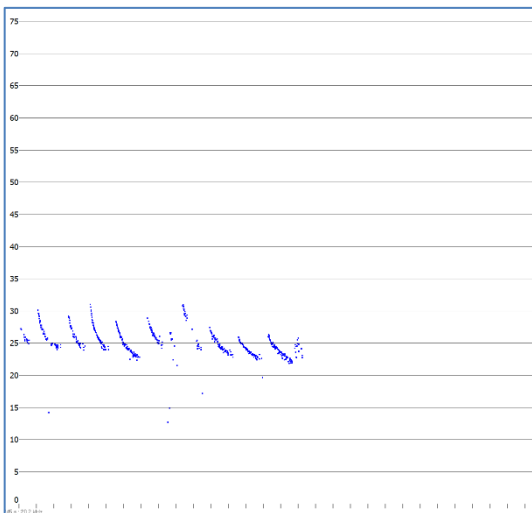
Miniopterus orianae



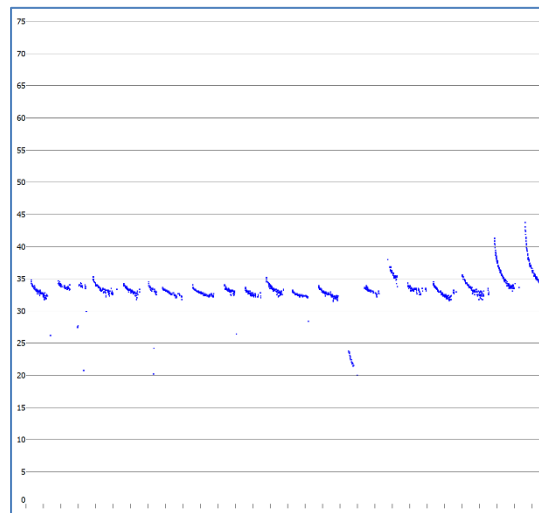
Austronomus australis



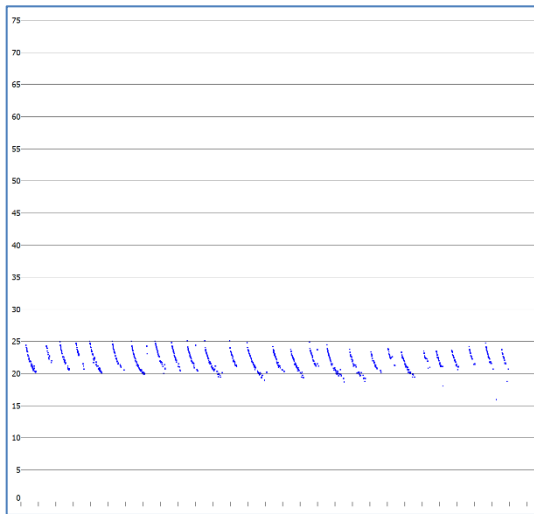
Chaerephon jobensis



Ozimops lumsdenae



Ozimops ridei



Saccolaimus flaviventris

Appendix J

Aquatic field survey result lists

Site 1

Species Name	Number of Adults	Number of Intermediate	Number of Juveniles
Agassiz's glassfish (<i>Ambassis agassizii</i>)	6		
Fly-specked hardyhead (<i>Craterocephalus stercusmuscarum</i>)	4		
Mouth almighty (<i>Glossamia aprion</i>)	4	1	1
Firetail gudgeon (<i>Hypseleotris galii</i>)	1	1	1
Western carp gudgeon (<i>Hypseleotris klunzingeri</i>)	2	1	
Hyrtl's tandan (<i>Neosilurus hyrtlii</i>)	3		
Krefft's river turtle (<i>Emydura macquarii krefftii</i>)			1

Site 3

Species Name	Number of Adults	Number of Intermediate	Number of Juveniles
Western carp gudgeon (<i>Hypseleotris klunzingeri</i>)			5
Krefft's river turtle (<i>Emydura macquarii krefftii</i>)	1		

Site 5

Species Name	Number of Adults	Number of Intermediate	Number of Juveniles
Agassiz's glassfish (<i>Ambassis agassizii</i>)		53	
Fly-specked hardyhead (<i>Craterocephalus stercusmuscarum</i>)		4	
Western carp gudgeon (<i>Hypseleotris klunzingeri</i>)		10	5
Spangled perch (<i>Leiopotherapon unicolor</i>)		3	8



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Appendix B

Suitably Qualified Persons

Training/Qualifications:

Erosion and Sediment Control IECA recognised training course, 2017

Lead Auditor- Integrated Management Systems: Quality, Environmental Management and Health and Safety, 2016

Post-doctoral Research Fellow, Miami University, Ohio, USA, 2004-2008 – Behavioural Ecology, Habitat Utilisation and Behavioural Genetics of Prairie Voles.

Doctor of Philosophy, (Ecology) Queensland University of Technology, 2009 – Population Biology, Habitat Utilisation and Population Genetics of the Giant White-tailed Rat

Bachelor of Science (1st Class Hons) (Environmental Science and Ecology), Griffith University, QLD, 2000 – Population Biology and Space Use of the Giant Barred Frog and Great Barred Frog.

Dr Craig Streatfeild is a Principal Environmental Scientist with over 20 years' experience in providing leadership and technical expertise in environmental impact assessments, environmental legislation, permitting and approvals, preparation of environmental management plans and environmental management, monitoring, compliance, fauna and flora assessments and mitigating impacts to fauna. Craig has been trained in quality, environmental management and health and safety systems auditing, erosion and sediment control and conflict resolution.

Although vertebrate population ecology (primarily for amphibians and small mammals/rodents), habitat utilisation and habitat fragmentation is Craig's initial area of expertise where he has extensive research experience with endangered species, particularly frogs and small mammal species, Craig has in recent years focused on delivering infrastructure, resource and development projects from early planning inception to final construction delivery including environmental impact assessments statements (EIA and EIS), post EIA/EIS tier 2 approvals, environmental offsets, environmental management plans and environmental compliance and ongoing compliance monitoring. Craig is also heavily involved in government liaison including negotiating approvals conditions, approval exemptions as well as project management, project development and delivery, coordination and management of multidisciplinary environmental impact assessments and monitoring programs and post EIA/EIS project approval processes.

Craig has extensive experience with environmental and biodiversity offsets and environmental approvals and permitting and has a strong understanding of the permitting requirements associated with a range of industries through his role as Environmental and Approvals Manager for the Rookwood Weir Project (Sunwater), Environmental Team Lead for the Road Relocations Design Phase of the Traveston Dam Project, Environmental Team Lead for the Goonyella to Abbott Point Rail Project, Environmental Approvals Advisor for various components of the QCLNG Project Stages, Project Manager for over 30 EIAs including strategic approvals pathway advice. These projects also required liaising with numerous stakeholders (such as design teams, client representatives and local, state and commonwealth government agencies) and preparing and maintaining approvals and compliance management registers.

Craig has also undertaken numerous environmental assessments primarily ecological and fauna related but also for soils, surface water and sediment and groundwater.

RECENT PROJECT EXPERIENCE

Fitzroy to Gladstone Pipeline (FGP). The FGP is being delivered by the Gladstone Area Water Board (GAWB) and includes the design and construction of a 116 km long pipeline. Craig's involvement is providing approval and environmental support as part of the project team. Key tasks include reviewing and providing technical input into third party development applications, preparing offsets documentation and liaising with a range of stakeholders including Federal and State Government agencies.

Rookwood Weir Environmental Approvals and Compliance. Environmental and approvals manager for the project. Initial works including a detailed GAP analysis and approvals and compliance matrices that assessed all required approvals including exemptions. Works involved managing and coordinating the development of all tier 2 approvals as well as authoring and/or providing technical reviews for a range of key secondary approvals associated with the Water Act, Vegetation Management Act, Environmental Protection Act, Nature Conservation Act, Fisheries Act and Local Government Planning Schemes.

Craig also managed and coordinated the development of compliance documentation to address EIS approval conditions and liaised with State and Commonwealth government departments in relation to amending current EIS approval conditions including biodiversity offsets and preparing EIS change reports for the Coordinator General. Craig was also heavily involved in preparing a detailed and strategic overarching offsets strategy that incorporated terrestrial, water quality and aquatic offsets and preparation of Offset Delivery Plans.

Private Landowner Species Management Plans and Offset Management Plan. Prepared and managed the species management plan (Cth), species management program (State) and offset management plan (Cth) to address an expansion of the current high-value agricultural practices as required by Commonwealth approval requirements.

Stanmore Coal Offset Management Plans and Offset strategies. Prepared and managed species management plans (Cth), species management programs (State) and offset management plans (Cth) to address both State and Commonwealth approval conditions for a range of projects.

Tier 2 approvals for private developments. Prepared and managed the approval process for a range of tier 2 approvals for several private developments in and around Hervey Bay.

Confidential Industrial Land Investigation for a Queensland State Government Department. Reviewed and provided input into the required approvals associated with the project.

Confidential Impact Assessment Investigation for a Privately-Owned Quarry. Undertook detailed assessment for the presence of the Endangered Giant Barred Frog and habitat assessments for the species as part of presumed illegal disturbances.

Confidential Infrastructure Corridor for Investigation for a Queensland State Government Department. Technical review of the advice documentation, including likely approvals for a multi-user linear infrastructure corridor for the co-location of water, power and rail.

Abbot Point Strategic Port Land Use Planning and Statutory Approvals. Technical review of the post EIS approvals required including operational works applications and the requisite assessments required to support approval documentation.

Metro Mining Bauxite Hills Bauxite EIS. Projected managed and co-authored the EIS for submission to Queensland's EHP and the Commonwealth's DoEE for a bauxite mining operation in north Queensland. Works involved assessing and addressing impacts to a range of environmental factors as well as determining the scope of the post EIS approvals that were likely to be required. The project also

involved submission of an EPBC referral to the DoEE for both marine and terrestrial MNES and the development of an overarching environmental offsets advice statement.

Metro Mining Skardon River Bauxite Project. Authored and reviewed management plans as required by the project's approvals conditions including the overarching environmental management plan and an offsets delivery plan advice statement.

Shandong Energy Hillalong Coal Mine EIS. EIS lead author and project manager for the project that involved an open cut and underground mine, haul road and train load out facility. Responsibilities also included Government liaison with both State and Commonwealth Departments and identification of post EIS tier 2 approvals and likely management plans.

Metro Mining Bauxite Hill Bauxite Mine Site Specific Environmentally Relevant Activity Impact Assessment. Project Managed and co-authored the environmental assessment which involved submission to EHP of a Site-Specific EA application for a bauxite mining operation in north Queensland. EHP subsequently decided that an EIS was required for this project.

Bandanna Energy's EIA Projects. Lead author, EIS coordinator and project manager for the Springsure Creek Coal Mine project that involved several Site-Specific EAs, an EIS under the *Environmental Protection Act 1994* and a Commonwealth EIS. Works also involved assessment of likely post EIS approvals and management plans associated with a water offtake pipeline.

Adani T0 Abbot Point Port Expansion. This project involved a Commonwealth EIS for the development of a new port berth at the existing Abbot Point in north Queensland. Craig was the lead technical reviewer of several technical reports and associate chapters including marine ecology, terrestrial ecology and coastal processes.

MetroCoal Bundi EIS Project. Lead author, EIS coordinator and project manager for the Bundi Underground Coal Mine project. Part of Craig's involvement also included submission of an EPBC referral to the then SEWPaC and advice on the likely post EIS approvals and management plan required.

QCLNG Project. Approvals and environmental team lead for the consultant engaged by the principal contractor involved in delivering the Narrows component of the gas export pipeline. The role involved coordination of permits and approvals downstream of the EIS and EA, coordination of environmental issues including relating to the preparation of environmental management plans, preparation of environmental approvals and liaison with assessment officers within various state government agencies.

CoalConnect Northern Missing Link Rail Project. This project involved connecting the current Goonyella and Newlands rail lines and upgrading the existing Newlands to Abbot Point section. Craig's involvement initially included ecological environmental assessments and which later progressed the Environmental Team Leader for the design phase of the project This entailed coordinating all environmental related issues including undertaking environmental assessments, technically reviewing environmental assessment reports under QRs EPPM process (PEPAs, EPSs, EMPs, DRs), preparation of environmental approvals and liaison with QR's environmental and approvals managers and assessment officers within various state government agencies.

Road infrastructure for the Traveston Crossing Dam, Queensland. This multifaceted project involved the upgrade, realignment and construction of numerous roads that would be inundated during Stage 1 of the dam. Craig was lead author for two several REFs and management plans as well as numerous approvals/permits under Queensland State Legislation.

EMPLOYMENT HISTORY

AUGUST 2018 TO PRESENT – SECONDMENT TO SUNWATER – Environment and Approvals Manager for the Rookwood Weir.

AUGUST 2017 TO AUGUST 2018 – SECONDMENT TO GAWB – Environment and Approvals Manager for the Rookwood Weir.

JUNE 2017 TO CURRENT – BASE CONSULTING GROUP PTY LTD, BRISBANE – Principal Environmental Scientist.

MAY 2011 TO MAY 2017 – CDM SMITH AUSTRALIA PTY LTD, BRISBANE – Associate Environmental Scientist in the Environment and Approvals Team.

MAY 2007 TO MAY 2011 – KELLOGG BROWN & ROOT PTY LTD, BRISBANE – Senior Environmental Scientist in the Environment, Planning and Water Resources Group.

2004 TO 2007 – MIAMI UNIVERSITY, OXFORD, OHIO, USA – Postdoctoral Reserch Fellow.

Training/Qualifications:

Bachelor of Science , University of Queensland 1997

BAM accredited (NSW) Assessor
Number BAAS19022

Apply/Senior First Aid and CPR

RIIVEH (201B) Operation of light
Vehicle

Standard 11 Generic Coal Induction

AHC BIO201 Insoect and clean
machinery for plant,animal and soil
material.

Specialisation

Ecological surveys (Terrestrial and
aquatic environments.

EVNT flora and fauna survey and
monitoring for linear, residential and
port infrastructure projects.

Years in industry

20

Andrew is a senior ecologist with over 20 years of practical experience in the areas of flora and fauna surveys throughout New South Wales, Queensland, and the Northern Territory. Andrew's main area of expertise is the identification and classification of flora and fauna and the management of threatened species and communities as listed under the *Environment Protection and Biodiversity Conservation Act 1999*, *Nature Conservation Act 1992* and *Vegetation Management Act 1999*.

Andrew has significant experience in some of New South Wales, and Queensland's largest infrastructure projects including coordinating geotechnical surveys for rail, power and gas projects, on-ground flora assessments and development of weed and vegetation management and rehabilitation strategies.

Relevant Projects

- FFJV Inland Rail (Northstar to Border) vegetation assessment for Borrow pit areas. Surveys required identifying vegetation types in proposed borrow pit areas and assessing using the NSW BAM assessment and reporting methodology.
- FFJV Inland Rail Geotechnical clearances and Protected Plant surveys. Surveys required identifying potential EVNT flora species that may occur within the proposed alignment and assessing geotechnical test locations for the presence/absence of identified flora species
- Flora and fauna surveys at three (3) proposed mine sites within the Emerald region. Surveys included identification of EPBC listed threatened ecological communities, identification of state and federal EVNT flora species and assistance in establishment of fauna trapping and flora monitoring programs.
- Establishment and monitoring of EVNT translocation program for *Marsdenia coronata* within the Springfield development area. This project involved the development of translocation methodology in conjunction with nursery staff, identification and marking of in-situ plants of *Marsdenia coronata* prior to translocation, development of salvage requirements in conjunction with nursery staff and the pre- and post-translocation health monitoring of transplanted individuals within the recipient site at Mardenia Lookout Springfield.
- Ecological Assessment Report and Protected Plant survey for future road widening in Gutchy creek area within the Gympie region for DTMR. Surveys identified the presence of *Samadera bidwillii* within the proposed works footprint resulting in submissions to relevant state and federal departments.

Project Experience

July 2019 to present

Base Consulting Group

Senior Ecologist

Vegetation clearances for geotechnical surveys for Adani rail feasibility investigations.

Determination of vegetation values for state offsets within Bowen region.

Flora and fauna surveys and waterway assessments for 1200km linear infrastructure project within northern Queensland.

Ecological assessment reports and Biodiversity and Offset management plans for Stanmore Coal Pty Ltd

Bird and bat management plans, vegetation assessment and ecological assessment reports for proposed windfarm in northern Queensland.

October 2018 to July 2019

Aurecon Australasia Pty Ltd, Brisbane, Australia

Senior Ecologist

FFJV Inland Rail Geotechnical clearances and Protected Plant surveys. Surveys required identifying potential EVNT flora species that may occur within the proposed alignment and assessing geotechnical test locations for the presence/absence of identified flora species

FFJV Inland Rail (Northstar to Border) vegetation assessment for Borrow pit areas. Surveys required identifying vegetation types in proposed borrow pit areas and assessing using the NSW BAM assessment and reporting.

Firebreak ecology field survey and reporting at Abbott Point Coal terminal Bowen. Survey involved the identification of vegetation within the proposed firebreak and determining clearing requirements for its construction.

Protected Plant Surveys, Ecological Assessment Reports and Rehabilitation Plans for NBN towers throughout South-east Queensland.

Ecological Assessment Report and Protected Plant survey for future road widening in Gympie region for DTMR.

Ecological Assessment Report for SunCoast Power Project as part of a Ministerial Infrastructure Designation Amendment.

July 2010 to October 2018

Saunders Havill Group

Senior Ecologist

Vegetation clearances for geotechnical surveys for Adani rail feasibility investigations.

Vegetation clearances for geotechnical surveys for Alpha coal mine.

Field assessment for EPBC referrals and Offset reports.

Nature Conservation Act protected plant surveys throughout Queensland.

Monitoring of EVNT translocation programs for *Masdenia coronata* and *Melaleuca irbyana* within the Springfield and Ipswich Regional Council areas.

Ecological equivalence assessments for biodiversity offsets.

Flora and fauna surveys along 270km of natural gas pipeline including mapping of EVNT species, weed distribution and verification of Regional Ecosystem mapping.

Flora and fauna surveys at three (3) proposed mine sites within the Emerald region. Surveys included identification of EPBC listed threatened ecological communities, identification of EVNT flora species and assistance in establishment of fauna trapping and monitoring.

Collection of flora field data utilising the Queensland Herbarium, "Methodology for Survey and Mapping of Regional Ecosystems and Vegetation Communities in Queensland".

Field survey and report preparation of Property Maps of Assessable Vegetation (PMAV's) for a number of development sites throughout Queensland.

Field survey and preparation of EVNT flora translocation plans including site survey, GPS mapping of populations and reporting and monitoring.

Preparation of extensive weed management plans for development and quarry sites in southern and central Queensland. Weed management plans included weed identification, comprehensive mapping of weed polygons, weed control strategies and reporting and monitoring.

Preparation of Quarry Rehabilitation Plans for sand and hard rock quarries in central and southern Queensland. Rehabilitation plans included site survey, soil amelioration methodologies, species requirements and spacing and monitoring and reporting.

Basic and comprehensive ecological assessment reports for development and ULDA site. Ecological assessments included identification of flora species, mapping of remnant and regrowth vegetation, wetland survey, weed identification and site ecological constraints analysis.

Preparation of code responses for vegetation clearing permits and koala SPRP reports including determination of offset requirements.

National, State and Local environmental searches including 'environmentally sensitive areas' mapping, regional ecosystem mapping, referable wetlands mapping, geological and soils searches, EPBC Protected Matters and Wildnet searches.

July 2007 to July 2010

Australian Farm Forestry Pty Ltd

General Manager

Coordination and management of over 35 staff including field and nursery staff.

The overseeing of the production of over 500,000 plants in the Australian Farm Forestry nursery facilities in 2009. Plants were utilised for revegetation/rehabilitation projects and forestry and carbon off-set plantations.

Preparation of Environmental Rehabilitation Plans, Environmental Management Plans, EVR Management Plans, Quality Management Policy and Procedures and OH&S Policy and Procedures.

Monitoring of cash flow, wages, time in motion studies and budgets for all nursery, revegetation, rehabilitation and forestry projects.

Ensuring all environmental works including rehabilitation and revegetation works comply with all local, state and federal legislation.